



Product Brochure



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CatPure™ mRNA



The application of mRNA technology in Covid vaccines has demonstrated its great potential as platform technology, with exciting frontiers in cancer vaccine, protein replacement, gene and cell therapy to name a few. AmRNA works with CATUG Biotechnology to deploy the best value mRNA to market and support R&D groups in academia as well as in biotech and pharmaceutical industries.

CatPure™ mRNA products are guaranteed for high purity standard and super expression due to the smart sequence design, advanced process and careful internal control. So far, more than 15 CatPure™ mRNA products are listed on AmRNA website (www.amrna.bio). We also accept custom synthesis for mRNA, self-amplifying mRNA and circular RNA.

Advantages



- Each mRNA has been fully sequence optimized (CDS + UTR) and screened from more than 20 variants for the highest expression.



- Each mRNA is produced with strictly controlled IVT, oligo-dT purification and TFF process to minimize batch-to-batch variation.

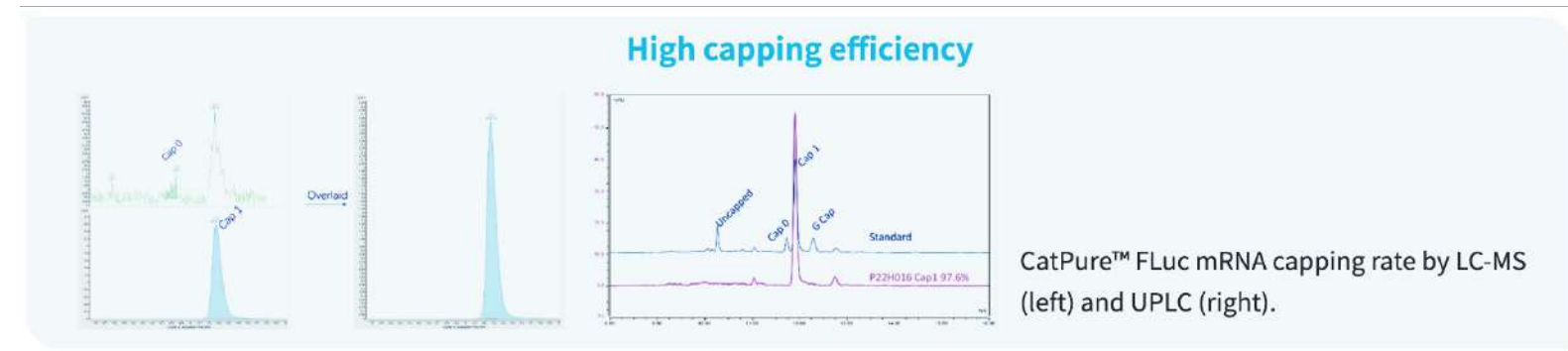
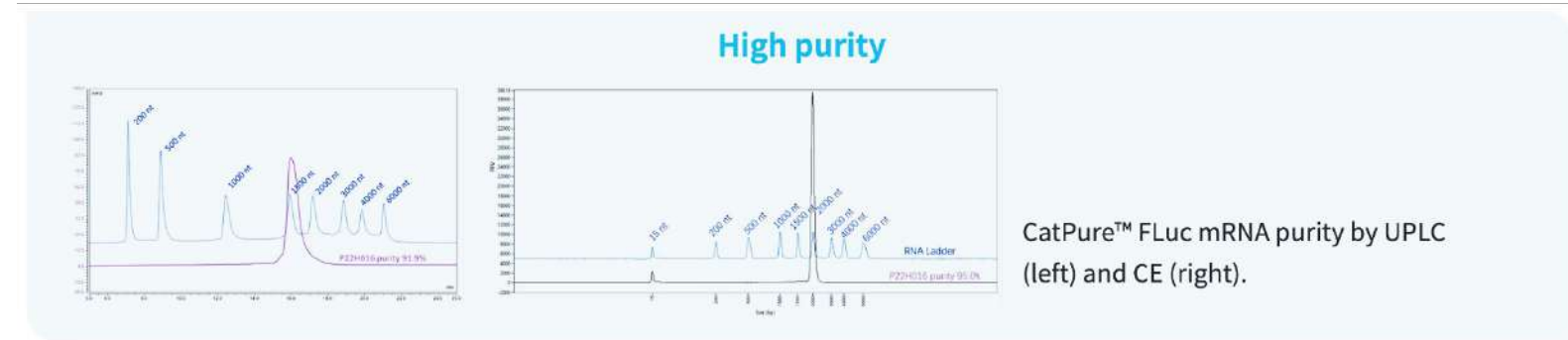


- Quality of each batch is fully analyzed and controlled with IND-grade release specification and confirmed with *in vitro* and cell potency.

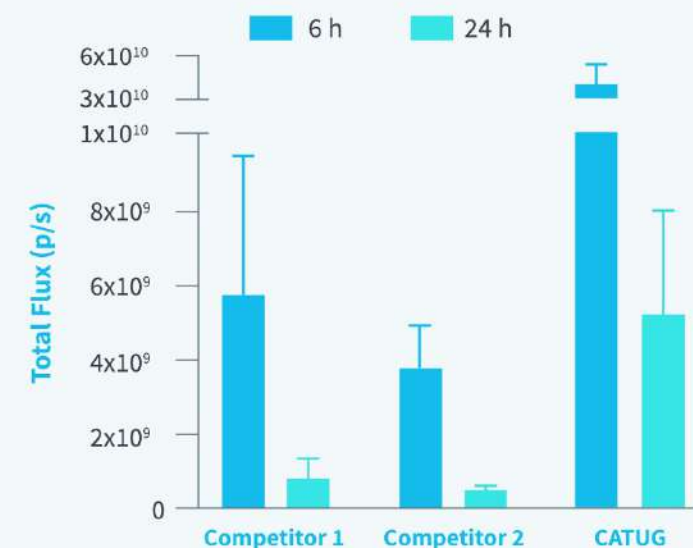


- Each catalog mRNA has been greatly tested and validated among academic and industrial clients in a wide range of applications.

CatPure™ Firefly Luciferase mRNA Example

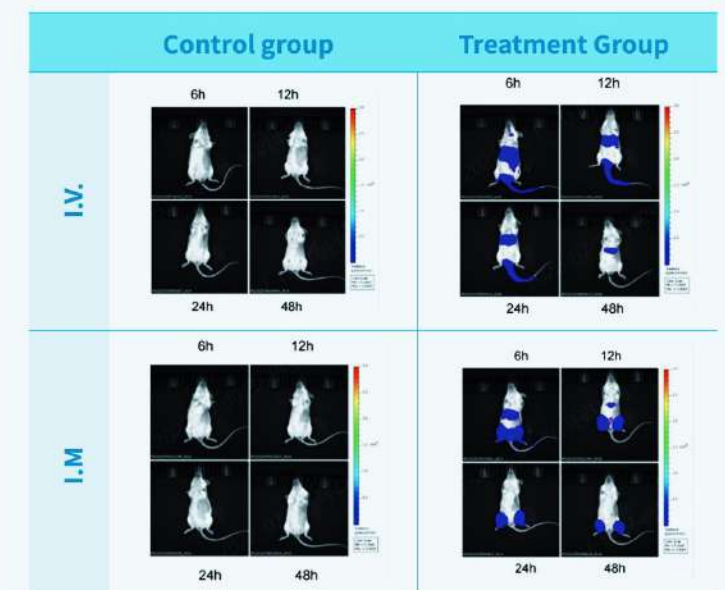


mRNA *in vivo* translation compared with market competitors



CatPure™ FLuc mRNA translation in mice via *in vivo* protein expression assay.

Excellent mRNA potency for *in vivo* imaging tests



CatPure™ FLuc mRNA potency in mice measured by *in vivo* imaging at 6 h, 12 h, 24 h, and 48 h after the injection of CatPure™ FLuc mRNA.



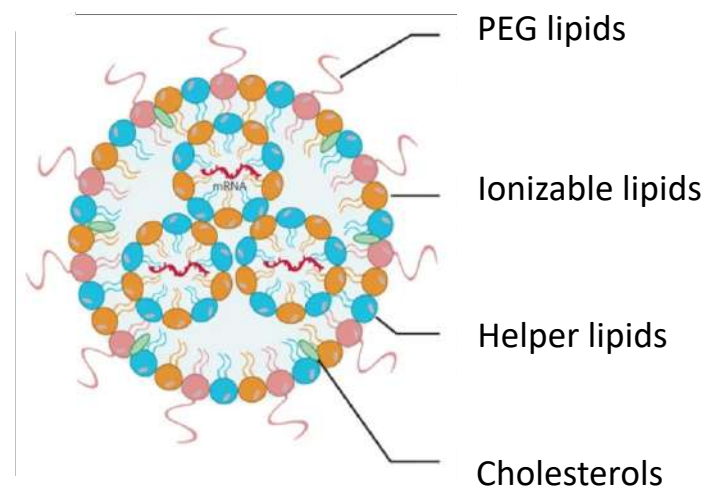
mRNA Products

LNP Products

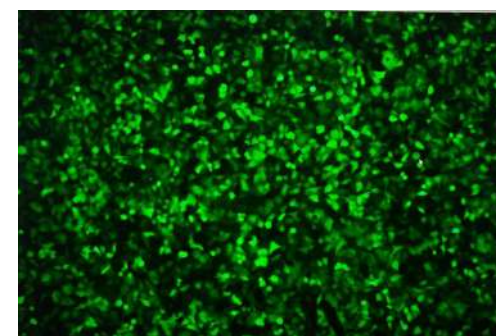
SKU	Product Name	Size	NTP	Application
CT060	EGFP mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Reporter gene
CT072	FLuc mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Reporter gene
CT084	GLuc mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Reporter gene
CT097	RLuc mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Reporter gene
CT110	beta gal mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Reporter gene
CT119	mCherry mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Reporter gene
CT134	EPO mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Protein replacement
CT039	Cas9 mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Gene editing
CT137	OVA mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Antigen
CT145	Cre mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Gene editing
CT146	CD19 CAR mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Cell therapy
CT060-cy3	EGFP-cy3 mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Reporter gene
CT119-cy5	mCherry-cy5 mRNA	100 µg, 500 µg, 1 mg	N1-Me-Pseudo UTP	Reporter gene
CT10000, CT20000	dsRNA 700	0.2 mg	N1-Me-Pseudo UTP, NTP	dsRNA standard
CT30000, CT40000	dsRNA 1800	0.2 mg	N1-Me-Pseudo UTP, NTP	dsRNA standard
CT50000, CT60000	dsRNA hairpin	0.2 mg	N1-Me-Pseudo UTP, NTP	dsRNA standard
SA006	EGFP saRNA	100 µg, 500 µg, 1 mg	NTP	Reporter gene
SA003	FLuc saRNA	100 µg, 500 µg, 1 mg	NTP	Reporter gene
SG003	sgRNA positive control, HRPT1	1 mg	NTP	Gene editing

CatPure™ LNP

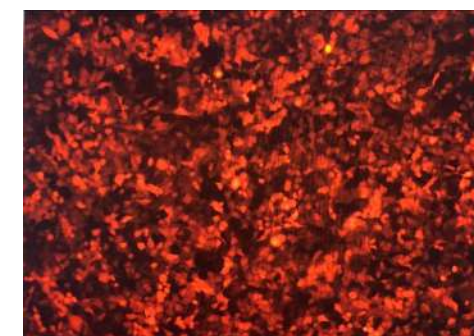
Lipid nanoparticles (LNPs) are one of the most popular non-viral delivery vehicles that have been widely used in mRNA vaccine and therapeutics as well as siRNA products. AmRNA has been working exclusively with CATUG Biotechnology to formulate ready-to-use LNPs encapsulating CatPure™ mRNA or customized payload for *in vitro* and *in vivo* studies. All LNP products are carefully controlled for the size, PDI, encapsulation percentage and proved to have long-term stability.



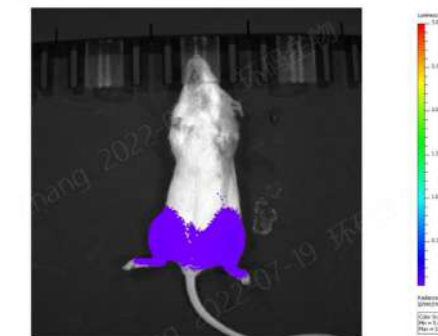
SKU	Product Name	Size	NTP	Application
CT1003	EGFP mRNA LNP	100 µg, 1 mg	N1-Me-Pseudo UTP	Reporter gene
CT1004	FLuc mRNA LNP	100 µg, 1 mg	N1-Me-Pseudo UTP	Reporter gene
CT1005	mCherry mRNA LNP	100 µg, 1 mg	N1-Me-Pseudo UTP	Reporter gene



Cell transfection with EGFP LNP



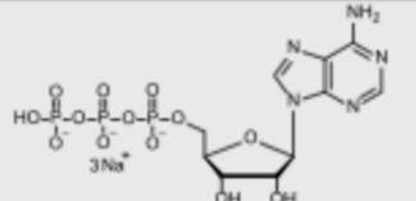
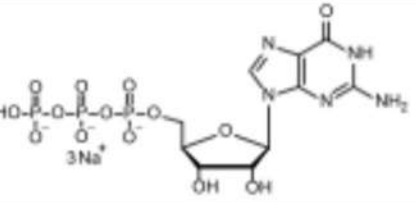
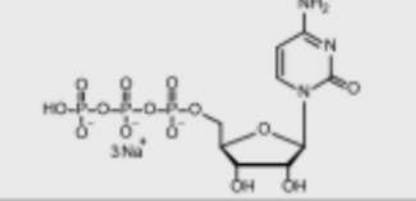
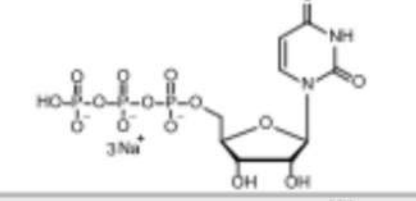
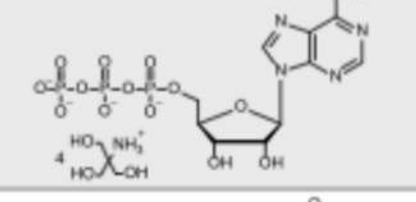
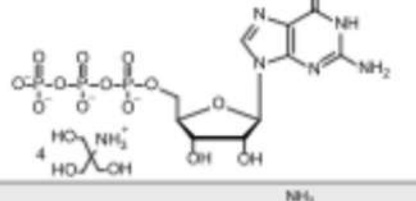
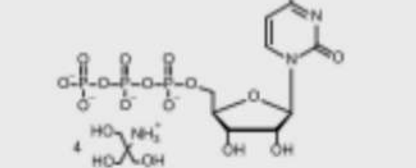
Cell transfection with mCherry LNP



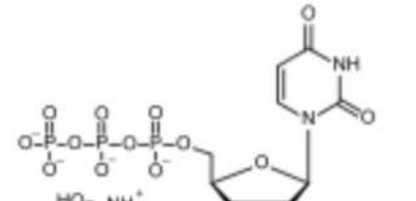
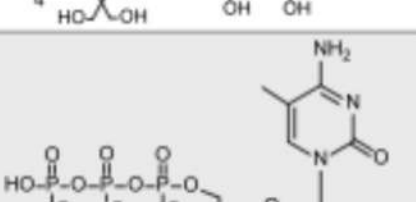
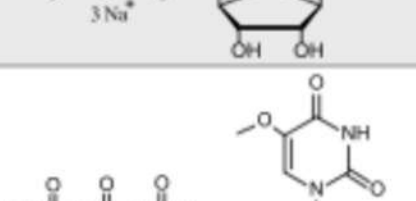
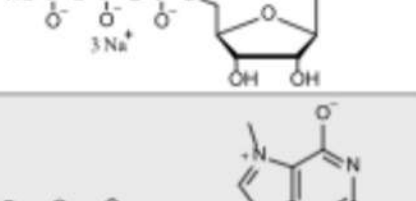
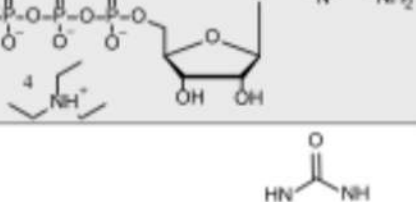
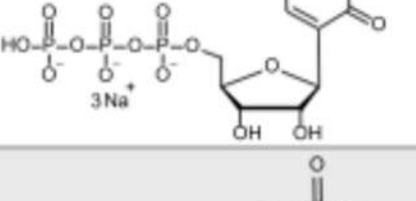
Mouse IM injection with Fluc LNP



NTPs

Catalog No.	Product Name	mM	Structure	Package
MR-1001	ATP sodium solution	100		1, 20, 100, 500 mL
MR-1002	GTP sodium solution	100		1, 20, 100, 500 mL
MR-1003	CTP sodium solution	100		1, 20, 100, 500 mL
MR-1004	UTP sodium solution	100		1, 20, 100, 500 mL
MR-1005	ATP Tris solution	100		1, 20, 100, 500 mL
MR-1006	GTP Tris solution	100		1, 20, 100, 500 mL
MR-1007	CTP Tris solution	100		1, 20, 100, 500 mL

Modified NTPs

Catalog No.	Product Name	mM	Structure	Package
MR-1008	UTP Tris solution	100		1, 20, 100, 500 mL
MR-2001	5-Me-CTP	100		1, 20, 100, 500 mL
MR-2002	5-OMe-UTP	100		1, 20, 100, 500 mL
MR-2003	N7-Me-GTP	100		1, 20, 100, 500 mL
MR-3001	Pseudo UTP sodium solution	100		1, 20, 100, 500 mL
MR-3002	N1-Me-Pseudo UTP sodium solution	100		1, 20, 100, 500 mL

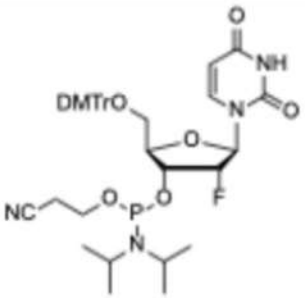
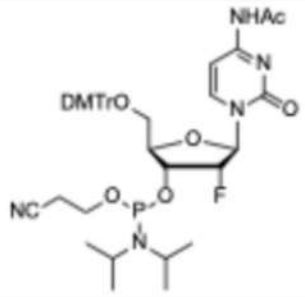
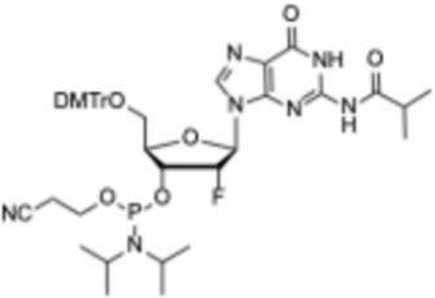
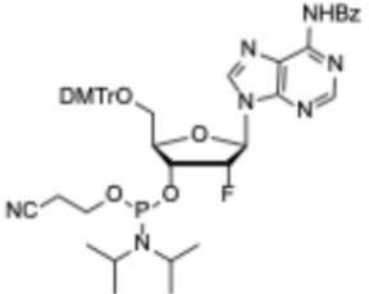


Phosphoramidite

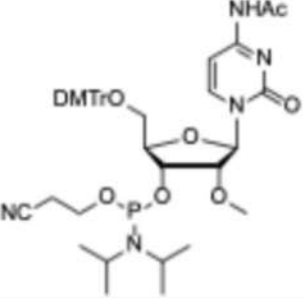
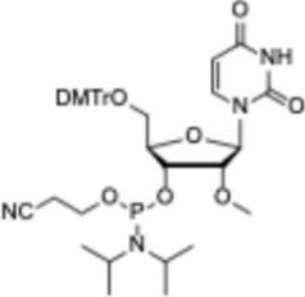
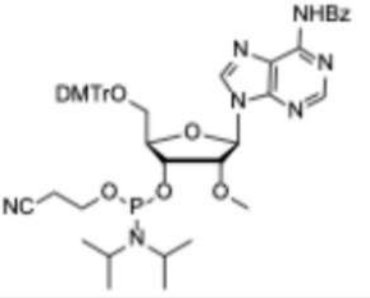
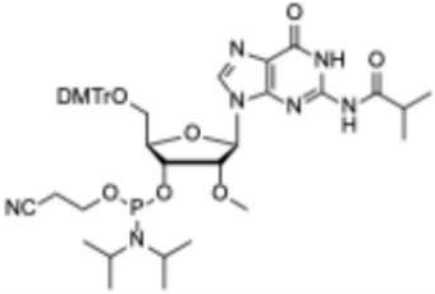
Phosphoramidite



2'-Fluoro Phosphoramidite

DMT-2'-F-dU-CE-Phosphoramidite	
CAS No. : 146954-75-8	
Catalog No. : PA-2015	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
DMT-2'-F-dC(Ac)-CE-Phosphoramidite	
CAS No. : 159414-99-0	
Catalog No. : PA-2013	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
DMT-2'-F-dG(<i>i</i> Bu)-CE-Phosphoramidite	
CAS No. : 144089-97-4	
Catalog No. : PA-2014	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
DMT-2'-F-dA(Bz)-CE-Phosphoramidite	
CAS No. : 136834-22-5	
Catalog No. : PA-2012	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	

2'-O-Methyl Phosphoramidite

DMT-2'-OMe-C(Ac)-CE-Phosphoramidite	
CAS No. : 199593-09-4	
Catalog No. : PA-2006	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
DMT-2'-OMe-U-CE-Phosphoramidite	
CAS No. : 110764-79-9	
Catalog No. : PA-2019	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
DMT-2'-OMe-A(Bz)-CE-Phosphoramidite	
CAS No. : 110782-31-5	
Catalog No. : PA-2003	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
DMT-2'-OMe-G(<i>i</i> Bu)-CE-Phosphoramidite	
CAS No. : 150780-67-9	
Catalog No. : PA-2018	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	



Deoxynucleoside Phosphoramidite

DMT-dC(Ac)-CE-Phosphoramidite

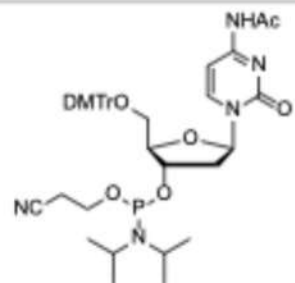
CAS No. : 154110-40-4

Catalog No. : PA-1010

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-dT-CE-Phosphoramidite

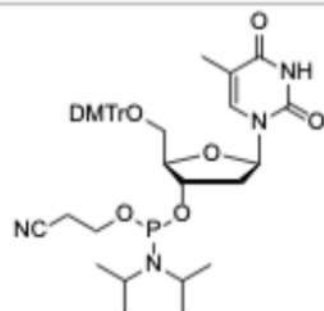
CAS No. : 98796-51-1

Catalog No. : PA-1008

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-dA(Bz)-CE-Phosphoramidite

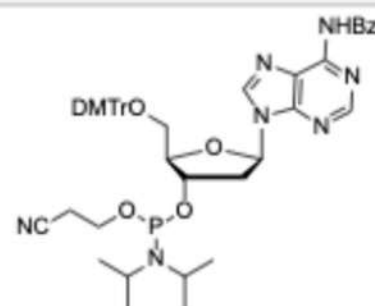
CAS No. : 98796-53-3

Catalog No. : PA-1005

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-dG(iBu)-CE-Phosphoramidite

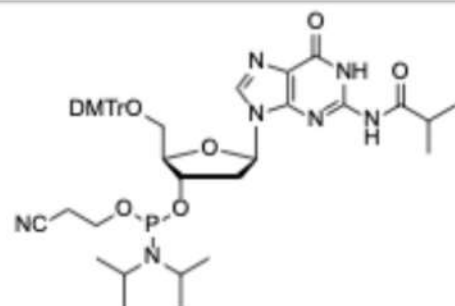
CAS No. : 93183-15-4

Catalog No. : PA-1003

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-dA(PAc)-CE-Phosphoramidite

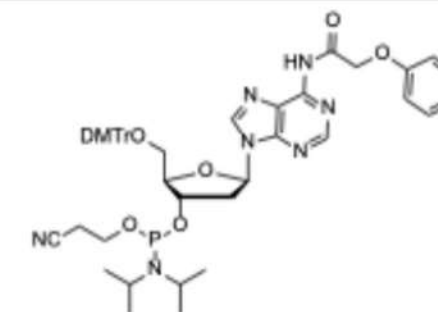
CAS No. : 110543-74-3

Catalog No. : PA-1001

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-dG(iPr-PAc)-CE-Phosphoramidite

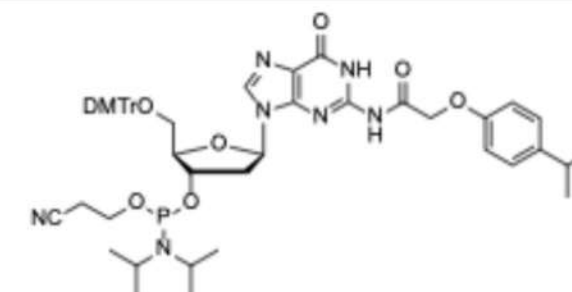
CAS No. : N/A

Catalog No. : PA-1002

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



2'-O-TBDMS Phosphoramidite

DMT-2'-O-TBDMS-C(Ac)-CE-Phosphoramidite

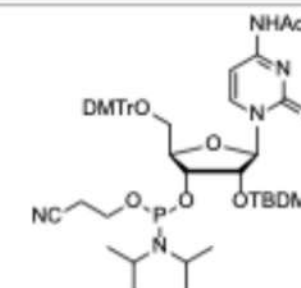
CAS No. : 121058-88-6

Catalog No. : PA-2011

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-2'-O-TBDMS-U-CE-Phosphoramidite

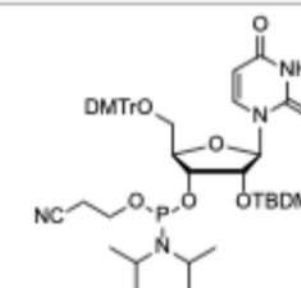
CAS No. : 118362-03-1

Catalog No. : PA-2010

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

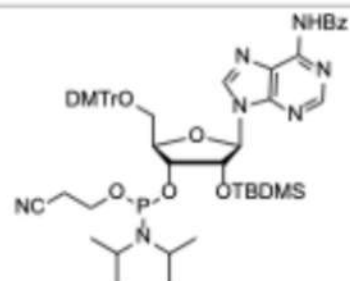
Water Content : ≤0.2%



DMT-2'-O-TBDMS-A(Bz)-CE-Phosphoramidite

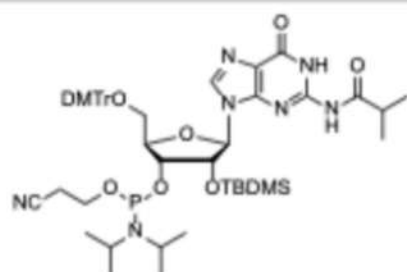
CAS No. : 104992-55-4

Catalog No. : PA-2008

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ DMT-2'-O-TBDMS-G(*i*Bu)-CE-Phosphoramidite

CAS No. : 147201-04-5

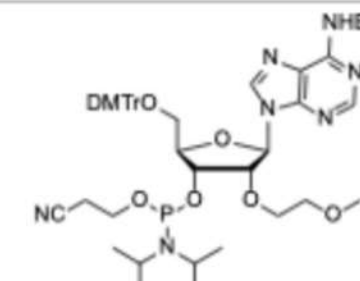
Catalog No. : PA-2009

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 

DMT-2'-O-MOE-A(Bz)-CE-Phosphoramidite

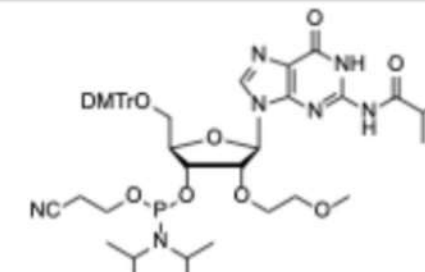
CAS No. : 251647-53-7

Catalog No. : PA-1041

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ DMT-2'-O-MOE-G(*i*Bu)-CE-Phosphoramidite

CAS No. : 251647-55-9

Catalog No. : PA-2040

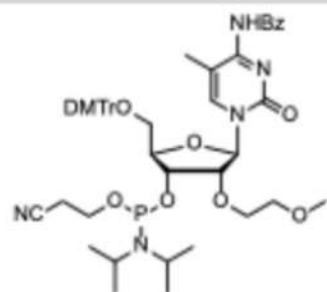
Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 

2'-O-MOE Phosphoramidite

5-Me-DMT-2'-O-MOE-C(Bz)-CE-Phosphoramidite

CAS No. : 163759-94-2

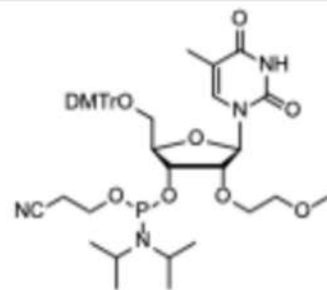
Catalog No. : PA-3041

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 

5-Me-DMT-2'-O-MOE-U-CE-Phosphoramidite

CAS No. : 163878-63-5

Catalog No. : PA-4041

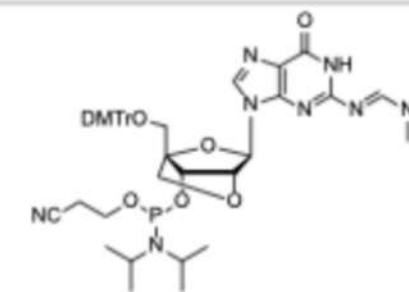
Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 

2'-O-4'-C Locked Phosphoramidite

DMT-2'-O-4'-C-Locked-G(dmf)-CE-Phosphoramidite

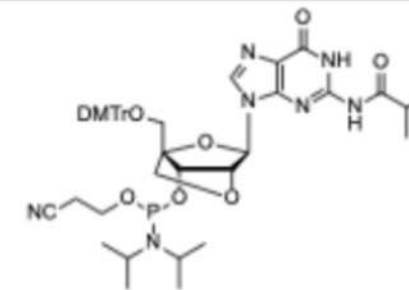
CAS No. : N/A

Catalog No. : PA-2072

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ DMT-2'-O-4'-C-Locked-G(*i*Bu)-CE-Phosphoramidite

CAS No. : N/A

Catalog No. : PA-2070

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 



Phosphoramidite

Phosphoramidite



DMT-2'-O-4'-C-Locked-A(Bz)-CE-Phosphoramidite

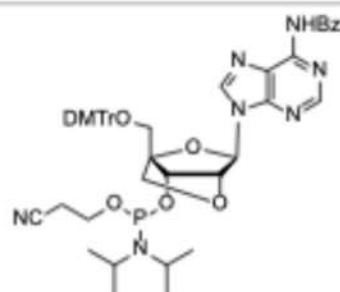
CAS No. : 206055-79-0

Catalog No. : PA-1071

Purity (HPLC) : $\geq 98\%$

Purity (^{31}P NMR) : $\geq 98\%$

Water Content : $\leq 0.2\%$



DMT-2'-O-4'-C-Locked-5-Me-C(Bz)-CE-Phosphoramidite

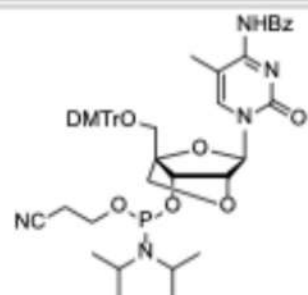
CAS No. : 206055-82-5

Catalog No. : PA-3072

Purity (HPLC) : $\geq 98\%$

Purity (^{31}P NMR) : $\geq 98\%$

Water Content : $\leq 0.2\%$



DMT-2'-O-4'-C-Locked-T-CE-Phosphoramidite

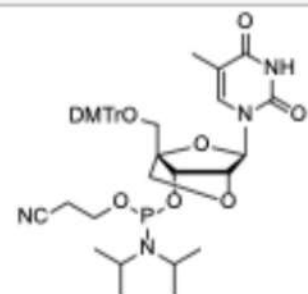
CAS No. : 206055-75-6

Catalog No. : PA-4070

Purity (HPLC) : $\geq 98\%$

Purity (^{31}P NMR) : $\geq 98\%$

Water Content : $\leq 0.2\%$



Pseudouridine Phosphoramidite

DMT-2'-OMe-N1-methyl-Pseudouridine-CE-Phosphoramidite

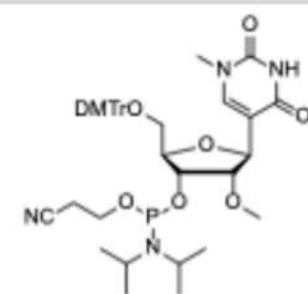
CAS No. : N/A

Catalog No. : PA-7020

Purity (HPLC) : $\geq 98\%$

Purity (^{31}P NMR) : $\geq 98\%$

Water Content : $\leq 0.2\%$



DMT-2'-OMe-Pseudouridine-CE-Phosphoramidite

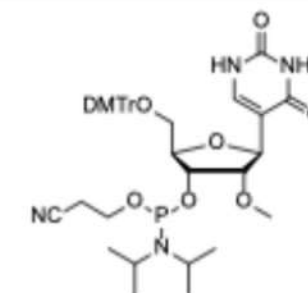
CAS No. : 199737-09-2

Catalog No. : PA-5020

Purity (HPLC) : $\geq 98\%$

Purity (^{31}P NMR) : $\geq 98\%$

Water Content : $\leq 0.2\%$



DMT-2'-deoxy-N1-methyl-Pseudouridine-CE-Phosphoramidite

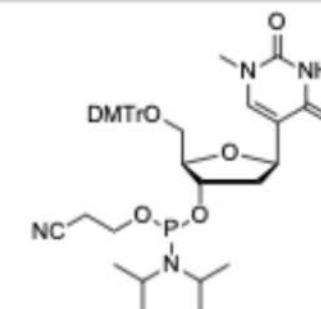
CAS No. : N/A

Catalog No. : PA-7010

Purity (HPLC) : $\geq 98\%$

Purity (^{31}P NMR) : $\geq 98\%$

Water Content : $\leq 0.2\%$



DMT-2'-O-TBDMS-N1-methyl-Pseudouridine-CE-Phosphoramidite

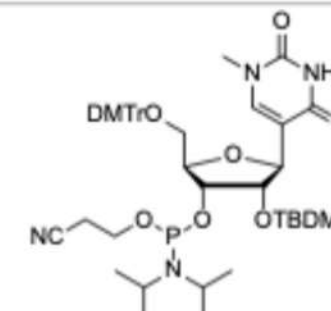
CAS No. : 875302-45-7

Catalog No. : PA-2022

Purity (HPLC) : $\geq 98\%$

Purity (^{31}P NMR) : $\geq 98\%$

Water Content : $\leq 0.2\%$



DMT-2'-O-TBDMS-Pseudouridine-CE-Phosphoramidite

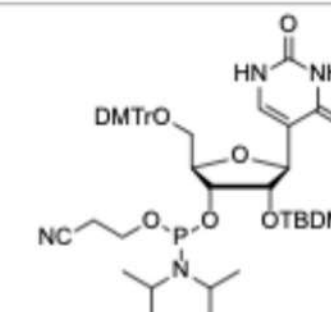
CAS No. : 163496-23-9

Catalog No. : PA-5050

Purity (HPLC) : $\geq 98\%$

Purity (^{31}P NMR) : $\geq 98\%$

Water Content : $\leq 0.2\%$





Phosphoramidite

Phosphoramidite



DNA Triphosphoramidite

2'-OMe-Triphosphoramidite

DMT-2'-dA(Bz)-3'-PS-Phosphoramidite

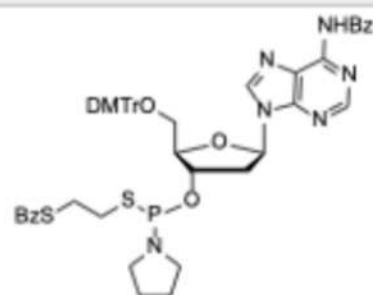
CAS No. : N/A

Catalog No. : PA-1012

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-2'-dG(*i*Bu)-3'-PS-Phosphoramidite

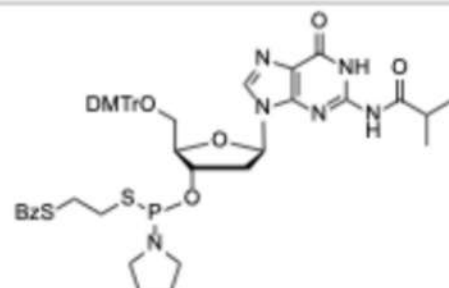
CAS No. : N/A

Catalog No. : PA-2110

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-2'-dC(Ac)-3'-PS-Phosphoramidite

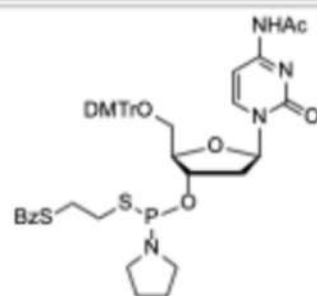
CAS No. : N/A

Catalog No. : PA-3011

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-2'-dT-3'-PS-Phosphoramidite

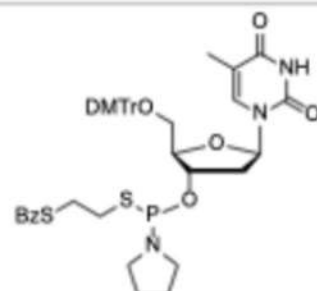
CAS No. : N/A

Catalog No. : PA-6010

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-2'-OMe-A(Bz)-3'-PS-Phosphoramidite

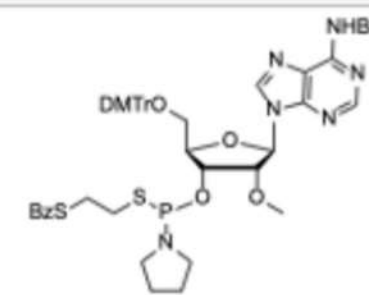
CAS No. : N/A

Catalog No. : PA-1020

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-2'-OMe-G(*i*Bu)-3'-PS-Phosphoramidite

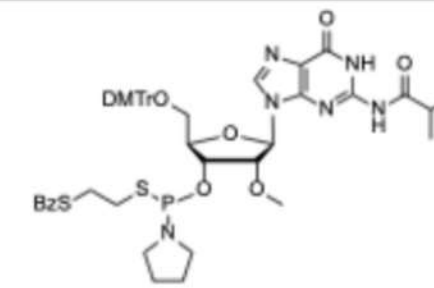
CAS No. : N/A

Catalog No. : PA-2023

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-2'-OMe-C(Ac)-3'-PS-Phosphoramidite

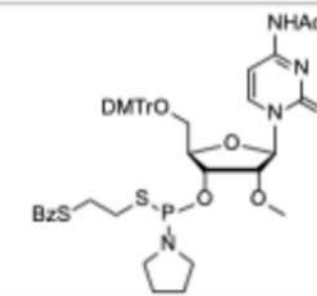
CAS No. : N/A

Catalog No. : PA-3020

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-2'-OMe-U-3'-PS-Phosphoramidite

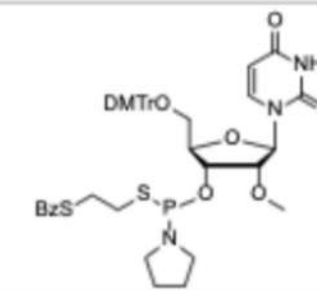
CAS No. : N/A

Catalog No. : PA-4020

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



2'-Fluoro Triphosphoramidite

DMT-2'-F-dA(Bz)-3'-PS-Phosphoramidite

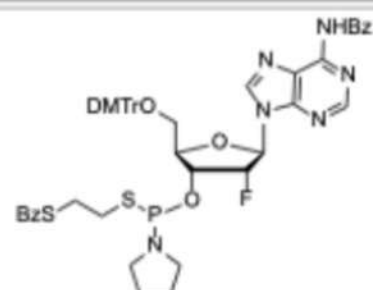
CAS No. : N/A

Catalog No. : PA-1030

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%

DMT-2'-F-dG(*i*Bu)-3'-PS-Phosphoramidite

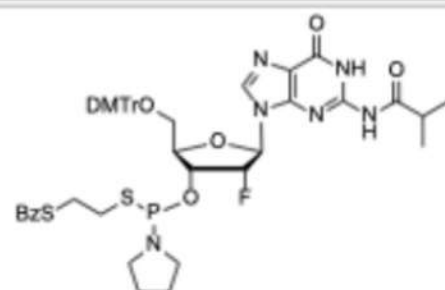
CAS No. : N/A

Catalog No. : PA-2030

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-2'-F-dC(Ac)-3'-PS-Phosphoramidite

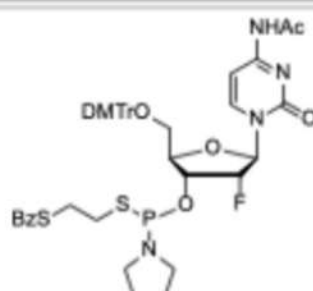
CAS No. : N/A

Catalog No. : PA-3030

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



DMT-2'-F-dU-3'-PS-Phosphoramidite

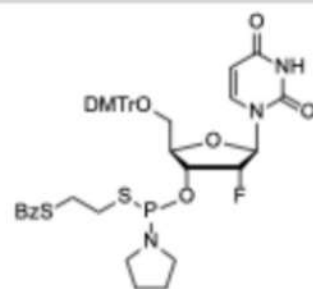
CAS No. : N/A

Catalog No. : PA-4030

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



2'-OMe-Reverse Phosphoramidite

3'-DMT-2'-OMe-C(Ac)-CE Reverse Phosphoramidite

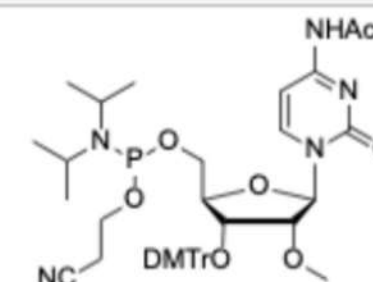
CAS No. : N/A

Catalog No. : PA-3021

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



3'-DMT-2'-OMe-U-CE Reverse Phosphoramidite

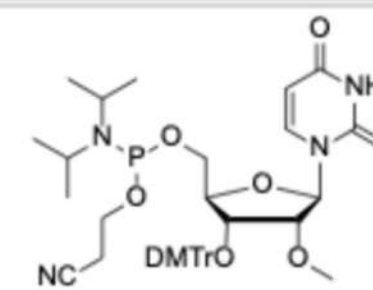
CAS No. : N/A

Catalog No. : PA-4021

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%



3'-DMT-2'-OMe-A(Bz)-CE Reverse Phosphoramidite

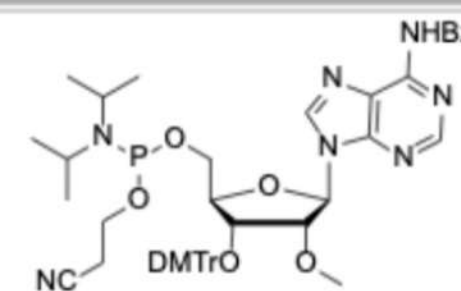
CAS No. : N/A

Catalog No. : PA-1021

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%

3'-DMT-2'-OMe-G(*i*Bu)-CE Reverse Phosphoramidite

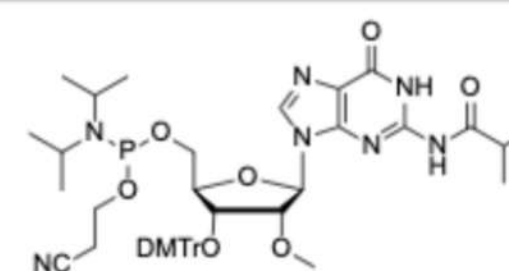
CAS No. : N/A

Catalog No. : PA-2024

Purity (HPLC) : ≥98%

Purity (³¹P NMR) : ≥98%

Water Content : ≤0.2%

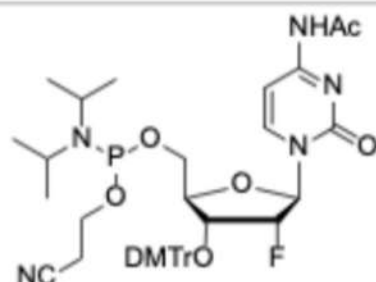


2'-F-Reverse Phosphoramidite

3'-DMT-2'-F-dC(Ac)-CE Reverse Phosphoramidite

CAS No. : N/A

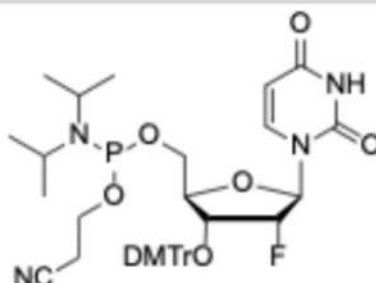
Catalog No. : PA-3031

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 

3'-DMT-2'-F-dU-CE Reverse Phosphoramidite

CAS No. : N/A

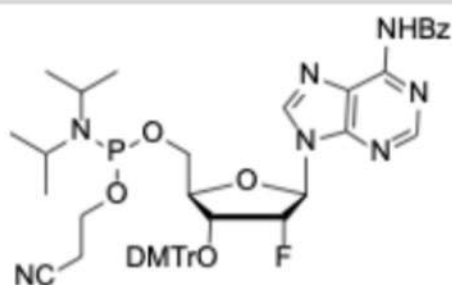
Catalog No. : PA-4031

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 

3'-DMT-2'-F-dA(Bz)-CE Reverse Phosphoramidite

CAS No. : N/A

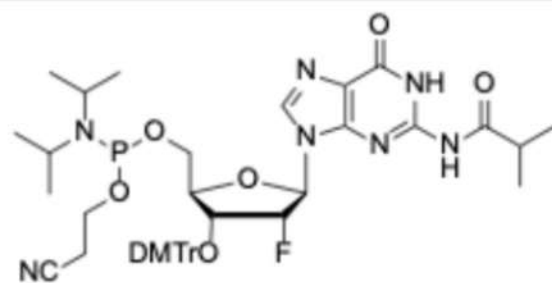
Catalog No. : PA-1031

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 

3'-DMT-2'-F-dG(iBu)-CE Reverse Phosphoramidite

CAS No. : N/A

Catalog No. : PA-2031

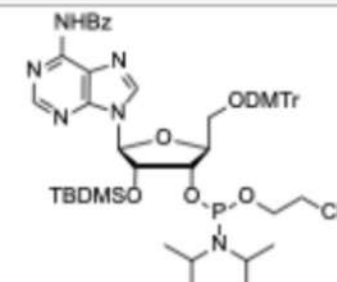
Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 

L-RNA Phosphoramidite

DMTr-2'-O-TBDMS-L-A(Bz)-3'-CE-Phosphoramidite

CAS No. : N/A

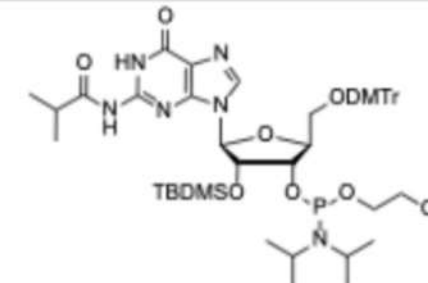
Catalog No. : PA-4063

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 

DMTr-2'-O-TBDMS-L-G(iBu)-3'-CE-Phosphoramidite

CAS No. : N/A

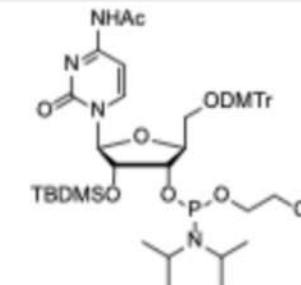
Catalog No. : PA-4061

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 

DMTr-2'-O-TBDMS-L-C(Ac)-3'-CE-Phosphoramidite

CAS No. : N/A

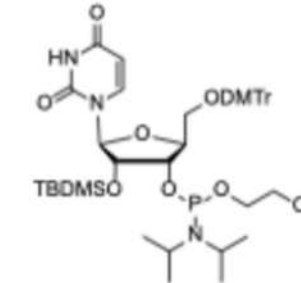
Catalog No. : PA-4062

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 

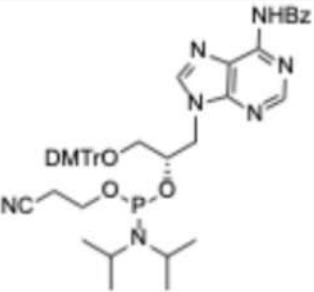
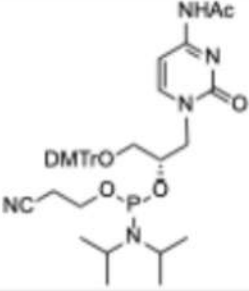
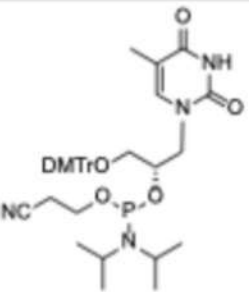
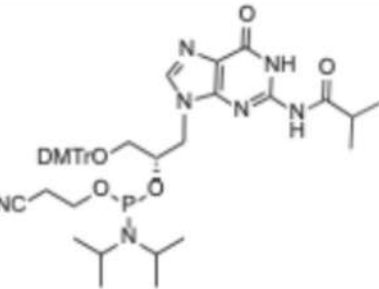
DMTr-2'-O-TBDMS-L-U-3'-CE-Phosphoramidite

CAS No. : N/A

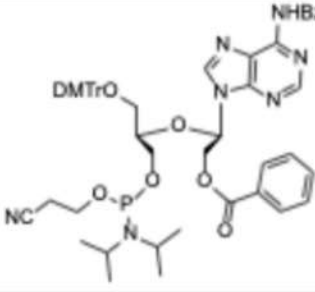
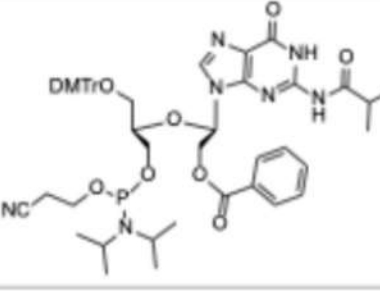
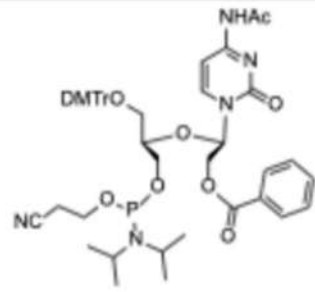
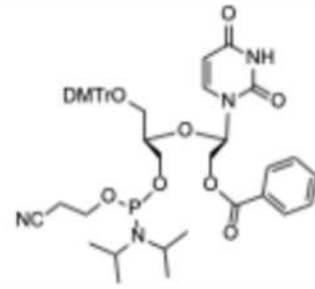
Catalog No. : PA-4060

Purity (HPLC) : $\geq 98\%$ Purity (^{31}P NMR) : $\geq 98\%$ Water Content : $\leq 0.2\%$ 

GNA Phosphoramidite

N6-Bz-A-(S)-GNA Phosphoramidite	
CAS No. : 851050-24-3	
Catalog No. : PA-1091	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
N4-Ac-C-(S)-GNA Phosphoramidite	
CAS No. : 1159174-80-7	
Catalog No. : PA-3091	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
T-(S)-GNA Phosphoramidite	
CAS No. : 168332-13-6	
Catalog No. : PA-6090	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
N2- <i>i</i> Bu-G-(S)-GNA Phosphoramidite	
CAS No. : 182625-68-9	
Catalog No. : PA-2091	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	

UNA Phosphoramidite

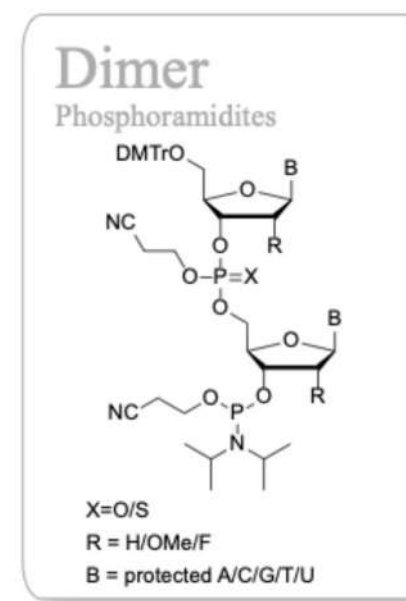
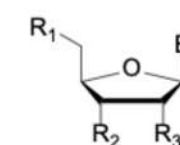
UNA-A(Bz)-CE Phosphoramidite	
CAS No. : 1120329-52-3	
Catalog No. : PA-1100	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
UNA-G(<i>i</i> Bu)-CE Phosphoramidite	
CAS No. : 1120329-61-4	
Catalog No. : PA-2100	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
UNA-C(Ac)-CE Phosphoramidite	
CAS No. : 1120329-56-7	
Catalog No. : PA-3100	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
UNA-U-CE Phosphoramidite	
CAS No. : 1120329-48-7	
Catalog No. : PA-4100	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	



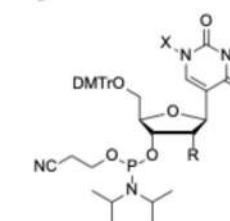
Morpholino

Morpholino A subunit	
CAS No. : 956139-18-7	
Catalog No. : PA-1080	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
Morpholino G(PhAc) subunit	
CAS No. : N/A	
Catalog No. : PA-2080	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
Morpholino C subunit	
CAS No. : 956139-21-2	
Catalog No. : PA-3080	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	
Morpholino T subunit	
CAS No. : 956139-30-3	
Catalog No. : PA-6080	
Purity (HPLC) : ≥98%	
Purity (³¹ P NMR) : ≥98%	
Water Content : ≤0.2%	

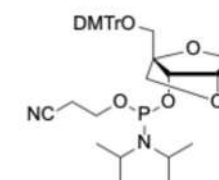
Phosphoramidite Products Overview

**Modified**
Nucleosides/Phosphoramidites

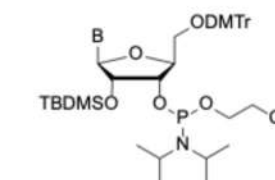
B = A/C/G/T/U
R₁/R₂/R₃ = required PGs

Pseudouridine
Phosphoramidites

X = H/Me
R = H/OMe/OTBDMS

LNA
Phosphoramidites

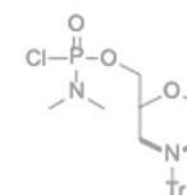
B = protected A/C/G/T/U

L-RNA
Phosphoramidites

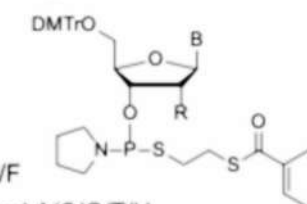
B = protected A/C/G/T/U

PMO

Phosphoramidites



B = protected A/C/G/T/U

Thiophosphoramidites

R = H/OMe/F
B = protected A/C/G/T/U

For more structures, bulk orders, please contact us.
info@amrna.bio