



ARCA Cap GMP-grade (100 mM)

Product description

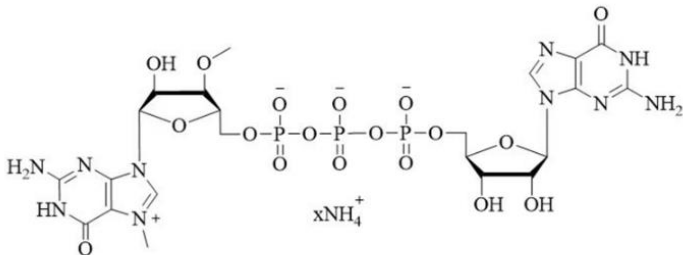
Anti-Reverse Cap Analog (ARCA) is a cap analog used during in vitro transcription for the generation of capped transcripts. ARCA is modified in a way that ensures incorporation in the forward orientation only. Anti-Reverse Cap Analog (ARCA) is a modified cap analog in which the 3' OH group (closer to m7G) is replaced with -OCH₃. Because of this substitution, the RNA polymerase can only initiate transcription with the remaining hydroxyl group thus forcing ARCA incorporation in the forward orientation. As a result, unlike transcripts synthesized with conventional cap analog, 100% of the transcripts synthesized with ARCA at the 5' end are translatable leading to a strong stimulatory effect on translation.

This product is produced in accordance with GMP process requirements and provided in liquid form.

Components

| Components No. | Name | 10681ES60 | 10681ES80 |
|----------------|-----------------------------|-----------|-----------|
| 10681 | ARCA Cap GMP-grade (100 mM) | 100 µL | 1mL |

Specifications

| | |
|-------------------|--|
| Molecular Formula | C ₂₂ H ₃₁ N ₁₀ O ₁₈ P ₃ (free acid) |
| Molecular Weight | 816.46 (free acid) |
| Concentration | 100 ± 3mM |
| Purity | ≥ 98% |
| Structure |  |

Storage

This product should be stored at -25°C ~ -15°C for two years.

Notes

- For your safety and health, please wear personal protective equipment (PPE), such as laboratory coats and disposable gloves, when operating with this product.