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## DINUCLEOTIDE STANDARD Formamido Thymine Dimer d(P<sup>f</sup>pT)

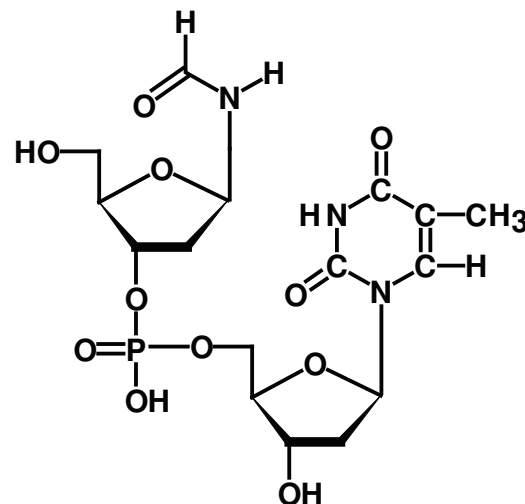
This product was manufactured in a facility which has a Quality Management System that is certified as being in compliance with ISO 13485.

ZMC Catalog #: 0801212

The development of this product was supported in part by grants from the National Cancer Institute (R42 CA80451) and the New York Center for Biotechnology.

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### Formamido Thymine Dimer d(P<sup>f</sup>pT)



d(P<sup>f</sup>pT): Dinucleotide monophosphate where P<sup>f</sup> is the nucleoside bearing the 1'-formamido-2-deoxy-b-D-ribose modification from a pyrimidine nucleoside.

#### PRODUCT CHARACTERISTICS

d(P<sup>f</sup>pT) is useful as an internal standard for end-labeling as well as LC-MS analysis in the investigation of the nature and consequences of DNA damage. d(P<sup>f</sup>pT) has been chemically synthesized to improve reliability and accuracy and purified by HPLC.<sup>(1)</sup> This modified monophosphate is derived by oxidation of pyrimidines. Identification of products and an index of their purity was accomplished by proton NMR spectroscopy at 400 MHz.<sup>(2)</sup>

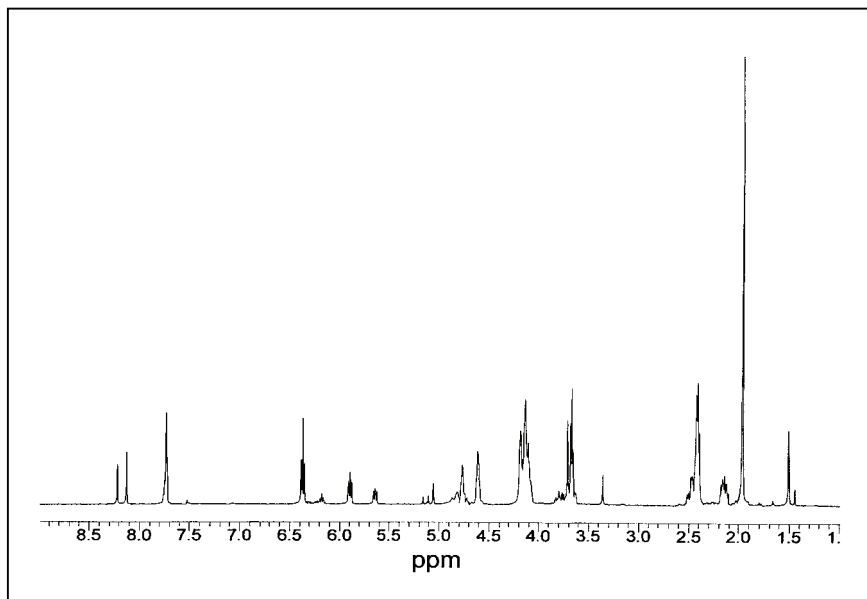
#### RECOMMENDED USAGE

d(P<sup>f</sup>pT) may be used as an internal standard for various quantitations. This lyophilized product is supplied at 1.0 ODU (~50 µg). Reconstitute in water to 1.0 ml

#### STORAGE AND STABILITY

Lyophilized product is stable for 1 year when stored at 2-8°C. Recommend aliquoting and storing at -20°C when resuspended in water.

## NMR Spectrum



## REFERENCES

- (1) A.E. Maccubbin, H.B. Patrzyc, N. Ersing, Budzinski, J.B. Dawidzik, J.C. Wallace, H. Iijima, H. C. Box, *Biochimica et Biophysica Acta* 1454 (1999) 80-88.
- (2) H.C. Box, H.G. Freund, E.E. Budzinski, J.C. Wallace and A.E. Maccubbin, *Radiation Research*, 141. 91-94 (1995)



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