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ZeptoMetrix



DINUCLEOTIDE STANDARD Formamido Cytidine Dimer d(P^fpC)

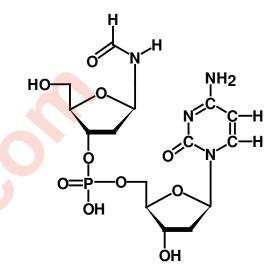
This product was manufactured in a facility which has a Quality Management System that is certified as being in compliance with ISO 13485.

ZMC Catalog #: 0801211

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FOR RESEARCH USE ONLY. Not for in vitro Diagnostic Use

Formamido Cytidine Dimer d(PfpC)



 $d(P^fpC)$: Dinucleotide monophosphate where P^f is the nucleoside bearing the 1'-formamido-2'deoxy- β -D-ribose modification from a pyrimidine nucleoside.

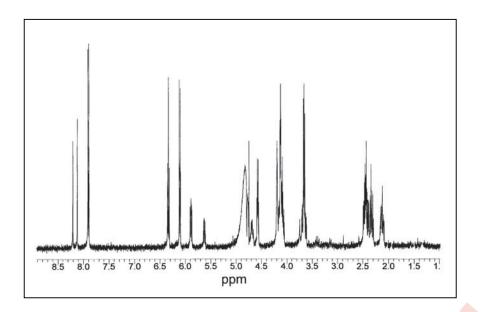
PRODUCT CHARACTERISTICS d(P[†]pC) is useful as an internal standard for end-labeling as well as LC-MS analysis in the investigation of the nature and consequences of DNA damage. d(P[‡]pC) has been chemically synthesized to improve reliability and accuracy and purified by HPLC.⁽¹⁾ The modified monophosphate is derived by oxidation of pyrimidines. Identification of the product and an index of its purity was accomplished by proton NMR spectroscopy at 400 MHz.⁽²⁾

RECOMMENDED USAGE

d(P^fpC) may be used as an internal standard for various quantitations. This product is supplied lyophilized at an OD of 1.0. 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. lijima, 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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