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NUCLEOSIDE STANDARD 8-Oxo-dG

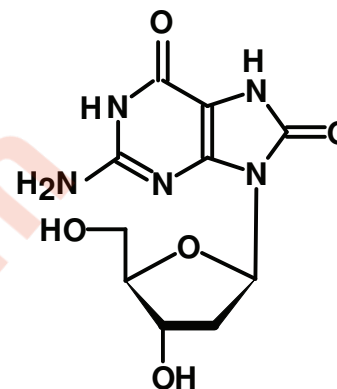
This product was manufactured in a facility which has a Quality Management System that is certified as being in compliance with ISO 13485.

ZMC Catalog #: 0801218

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FOR RESEARCH USE ONLY. Not for *in vitro* Diagnostic Use

8-Oxo-2' Deoxy Guanosine (8-Oxo-dG)



(8-Oxo-dG): 8-Oxo-7,8 dihydro-2'-deoxyguanosine (Also known as 8-hydroxy- 2' -deoxyguanosine; 8-oxo-2-deoxyguanosine)

PRODUCT CHARACTERISTICS

(8-Oxo-dG) serves as a marker of oxidative DNA damage in biological systems.⁽¹⁾ (8-Oxo-dG) has been chemically synthesized to improve reliability and accuracy and purified by HPLC.⁽²⁾ Identification of the product and an index of its purity was accomplished by proton NMR spectroscopy at 400 MHz.⁽³⁾

FORMULA/WEIGHT/PURITY

Mol. F: C₁₀H₁₃N₅O₅ **FW:** 283.24 **Purity:** >98%

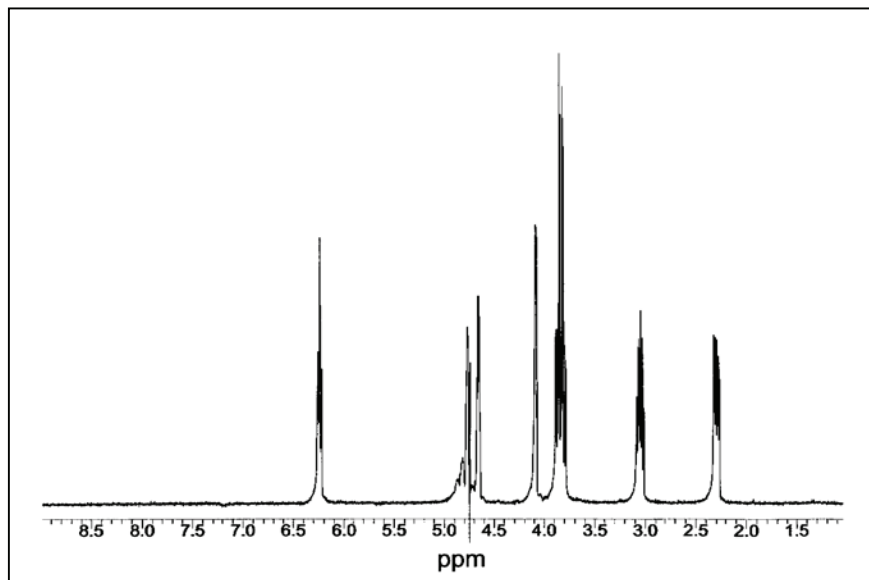
RECOMMENDED USAGE

8-Oxo-dG may be used as an internal standard for quantitation of DNA damage by various methods including LC-MS.

STORAGE AND STABILITY

Supplied at ~1.0 mg/vial. 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) ESCODD (European Standards Committee on Oxidative DNA Damage) Free Radical Research (2000) 32, 333-341.
- (2) A.E. Maccubbin, H.B. Patzyc, N. Ersing, Budzinski, J.B. Dawidzik, J.C. Wallace, H. Iijima, H. C. Box, Biochimica et Biophysica Acta (1999) 1454, 80-88.
- (3) H.C. Box, H.G. Freund, E.E. Budzinski, J.C. Wallace and A.E. Maccubbin, Radiation Research, (1995) 141, 91-94.

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