



## NUCLEOSIDE STANDARD 8-Oxo-dA

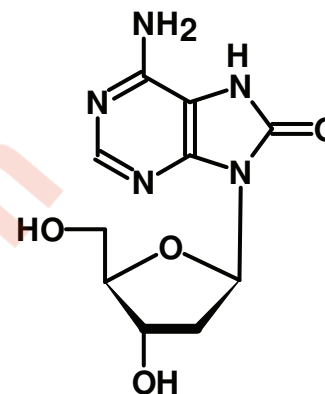
This product was manufactured in a facility which has a Quality Management System that is certified as being in compliance with ISO 13485.

ZMC Catalog #: 0801219

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

### 8-Oxo-2'-Deoxy Adenosine (8-Oxo-dA)



**(8-Oxo-dA): 8-Oxo-7,8 dihydro-2'-deoxyadenosine** (Also known as 8-hydroxy-2'-deoxyadenosine; 8-oxo-2-deoxyadenosine)

#### PRODUCT CHARACTERISTICS

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

#### FORMULA/WEIGHT/PURITY

**Mol.F:** C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O<sub>4</sub> **FW:** 267.24 **Purity:** >98%

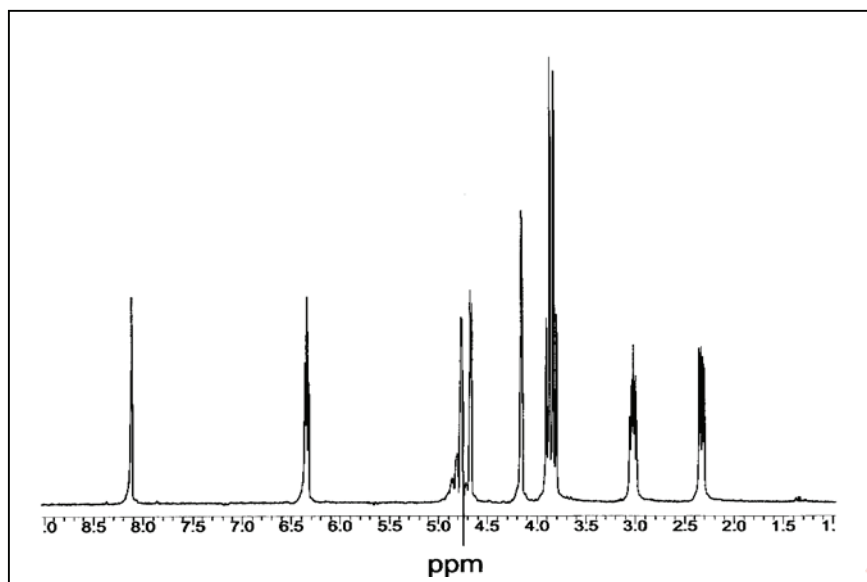
#### RECOMMENDED USAGE

8-Oxo-dA 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) A. Weimann, D. Belling, H.E. Poulsen, *Free Radic. Biol. Med.* (2001) **30**, 757-764.
- (2) A.E. Maccubbin, H.B. Patrzyk, 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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