



Catalog # 10-2690

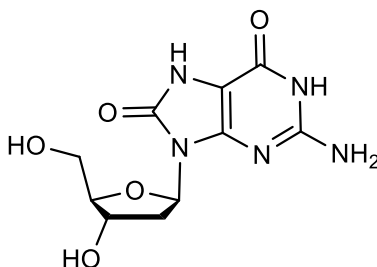
8-Oxo-2'-deoxyguanosine

88847-89-6

8-Oxo-7,8-dihydro-2'-deoxyguanosine

8-Oxo-dG; Oxo-dG

Lot # X106831



A useful marker for DNA damage via a variety of oxidative processes¹. It is a critical biomarker for oxidative stress and carcinogenesis^{2,3}.

- 1) Beckman *et al.* (1997), *Oxidative decay of DNA*; J. Biol. Chem., **272** 19636
- 2) Andreoli *et al.* (2010), *Quantitative determination of urinary 8-oxo-7,8-dihydro-2'-deoxyguanosine, 8-oxo-7,8-dihydroguanine, 8-oxo-7,8-dihydroguanosine, and their non-oxidized forms: daily concentration profile for healthy volunteers*; Biomarkers, **15** 221
- 3) Manini *et al.* (2009), *Biomarkers of nucleic acid oxidation, polymorphism in, and expression of, hOGG1 gene in styrene-exposed workers*; Toxicol. Lett., **190** 41

PHYSICAL DATA

Molecular Weight:	283.25
Molecular Formula:	C ₁₀ H ₁₃ N ₅ O ₅
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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