

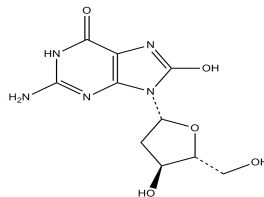
## 8-Hydroxy-2'-deoxyguanosine

**ALTERNATE NAME:** 8-Oxo-dG; 8-Oxo-7,8-dihydrodeoxyguanosine; 8-Hydroxydeoxyguanosine; 7,8-Dihydro-8-oxo-2'-deoxyguanosine; sine; 8-OH-dG

**CATALOG #:** 2177-1, 5

**AMOUNT:** 1 mg, 5 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O<sub>5</sub>

**MOLECULAR WEIGHT:** 283.24

**CAS NUMBER:** 88847-89-6

**APPEARANCE:** White to off-white solid

**SOLUBILITY:** DMSO (~ 12 mg/ml)

**PURITY:** ≥98% by HPLC

**STORAGE:** Store at -20°C. Protect from air and moisture

**DESCRIPTION:** 8-Hydroxy-2-deoxyguanosine is produced by oxidative damage of DNA by reactive oxygen and nitrogen species, including hydroxyl radical and peroxynitrite. It serves as a critical biomarker of oxidative stress and carcinogenesis.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

8-Hydroxyguanosine (**Cat. No. 2176-1,5**)

4-Hydroxynonenal (**Cat. No. 2083-1,5**)

Lipid Peroxidation (MDA) Assay Kit (**Cat. No. K739-100**)

Nitrotyrosine Antibody (**Cat. No. 5416-50**)

Nitrotyrosine Antibody(7A5) (**Cat. No. 5413-50**)

Nitrotyrosine Antibody(HM11) (**Cat. No. 5414-50**)

Nitrotyrosine Antibody(NOY-7A5) (**Cat. No. 5415-50**)

3-Nitrotyrosine Antibody(39B6) (**Cat. No. 5412-100**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**