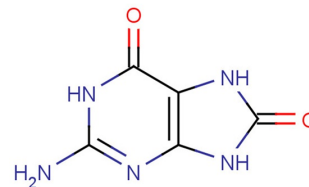


## 8-Hydroxyguanine

## Chemical Properties

CAS No.:	5614-64-2
Formula:	C <sub>5</sub> H <sub>5</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	167.13
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	8-Hydroxyguanine is a major pre-mutagenic lesion generated from reactive oxygen species and causes G-T and A-C substitutions.
Targets(IC <sub>50</sub> )	Human Endogenous Metabolite: None

## Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.983 mL	29.917 mL	59.834 mL
5 mM	1.197 mL	5.983 mL	11.967 mL
10 mM	0.598 mL	2.992 mL	5.983 mL
50 mM	0.12 mL	0.598 mL	1.197 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Arai T, et al. High accumulation of oxidative DNA damage, 8-hydroxyguanine, in Mmh/Ogg1 deficient mice by chronic oxidative stress. Carcinogenesis. 2002 Dec;23(12):2005-10.
2. Floyd RA, et al. The role of 8-hydroxyguanine in carcinogenesis. Carcinogenesis. 1990 Sep;11(9):1447-50.
3. Cheng KC, et al. 8-Hydroxyguanine, an abundant form of oxidative DNA damage, causes G----T and A----C substitutions. J Biol Chem. 1992 Jan 5;267(1):166-72.

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