
Product Data Sheet

Product Name: 8-Hydroxyguanine

Cat. No.: GC35204

Chemical Properties

Cas. No. 5614-64-2

SMILES O=C1NC(N)=NC2=C1NC(N2)=OFormula C5H5N5O2

M.Wt 167.13

Solubility Water: < 0.1 mg/mL (insoluble); Ethanol: < 1 mg/mL (insoluble); DMSO: < 1 mg/mL (insoluble or slightly soluble)

Store
Storage at -
20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

8-Hydroxyguanine is a major pre-mutagenic lesion generated from reactive oxygen species. It causes G-T and A-C substitutions. Human Endogenous Metabolite

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA