

Product Data Sheet

Product Name: Hypoxanthine-15N4

Cat. No.: GC71828

Chemical Properties

Cas. No. 77910-30-6

Formula $C_5H_4^{15}N_4O$ M.Wt 140.09

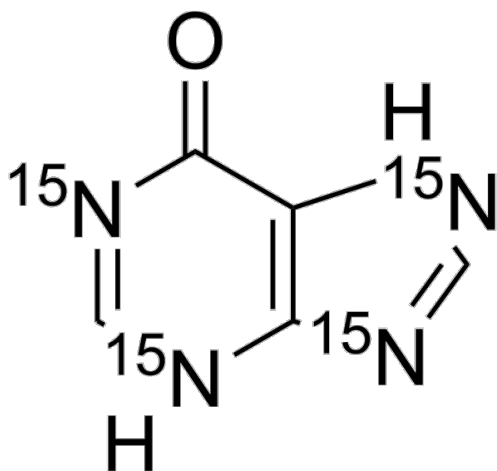
Solubility DMSO : 10 mg/mL (71.38 mM; Need ultrasonic and warming; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

Storage 4°C, sealed storage, away from moisture and light

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

Hypoxanthine-15N4 is the 15N labeled Hypoxanthine[1]. Hypoxanthine, a purine derivative, is a potential free radical generator and could be used as an indicator of hypoxia[2].

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug

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

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molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

<p >References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Saugstad OD, et al. Hypoxanthine as an indicator of hypoxia: its role in health and disease through free radical production. *Pediatr Res*. 1988 Feb;23(2):143-50.

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