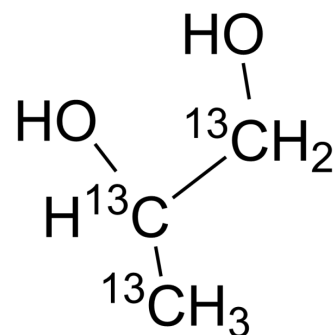


(±)-1,2-Propanediol-¹³C₃

Cat. No.:	HY-Y0921S3
Molecular Formula:	¹³ C ₃ H ₈ O ₂
Molecular Weight:	79.07
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(±)-1,2-Propanediol- ¹³ C ₃ is ¹³ C labeled (±)-1,2-Propanediol (HY-Y0921). (±)-1, 2-propanediol (1,2-(RS)-Propanediol) is an aliphatic alcohol that is often used as an excipient in many active molecular preparations to increase the solubility and stability of the active molecule. (±)-1, 2-propanediol can affect the neurobehavior of zebrafish ^{[1][2]} .
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug 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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Massarsky A, et al. Neurobehavioral effects of 1,2-propanediol in zebrafish (Danio rerio). *Neurotoxicology*. 2018 Mar;65:111-124.
- [2]. De Cock RF, et al. Low but inducible contribution of renal elimination to clearance of propylene glycol in preterm and term neonates. *Ther Drug Monit*. 2014 Jun;36(3):278-87.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA