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Produktinformation



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Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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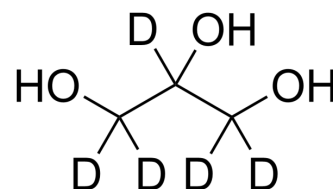
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Glycerol-d₅

Cat. No.:	HY-B1659S6
CAS No.:	62502-71-0
Molecular Formula:	C ₃ H ₃ D ₅ O ₃
Molecular Weight:	97.12
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Pure form -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (1029.65 mM; Need ultrasonic)
H₂O : 100 mg/mL (1029.65 mM; Need ultrasonic)
DMSO : 100 mg/mL (1029.65 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		10.2965 mL	51.4827 mL	102.9654 mL
	5 mM		2.0593 mL	10.2965 mL	20.5931 mL
	10 mM		1.0297 mL	5.1483 mL	10.2965 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Glycerol-d₅ is the deuterium labeled Glycerol[1]. Glycerol is used in sample preparation and gel formation for polyacrylamide gel electrophoresis[2][3][4].

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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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- [2]. Pennings S, et al. Effect of glycerol on the separation of nucleosomes and bent DNA in low ionic strength polyacrylamide gel electrophoresis. *Nucleic Acids Res.* 1992 Dec 25;20(24):6667-72.
- [3]. Yazdani SS, et al. Anaerobic fermentation of glycerol: a path to economic viability for the biofuels industry. *Curr Opin Biotechnol.* 2007 Jun 18(3):213-9.
- [4]. Huang ZH, et al. Expression and function of P-glycoprotein in rats with glycerol-induced acute renal failure. *Eur J Pharmacol.* 2000 Oct 20;406(3):453-60.
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Caution: Product has not been fully validated for medical applications. For research use only.

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