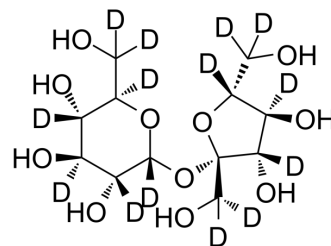


Sucrose-d₁₄

Cat. No.:	HY-B1779S3		
Molecular Formula:	C ₁₂ H ₈ D ₁₄ O ₁₁		
Molecular Weight:	356.38		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (280.60 mM; Need ultrasonic)
 H₂O : ≥ 50 mg/mL (140.30 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		2.8060 mL	14.0300 mL	28.0599 mL
	5 mM		0.5612 mL	2.8060 mL	5.6120 mL
	10 mM		0.2806 mL	1.4030 mL	2.8060 mL

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

BIOLOGICAL ACTIVITY

Description

Sucrose-d₁₄ is the deuterium labeled Sucrose. Sucrose (D-(+)-Saccharose) is a disaccharide which is composed of two monosaccharides, glucose and fructose. Sucrose can be applied in some animal models, including metabolic disease, obesity, diet on preferen

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.

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

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