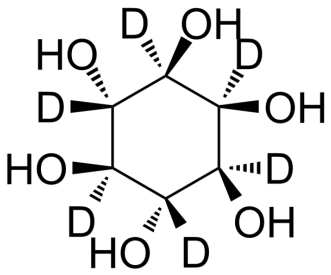
i-Inositol-d_6

Cat. No.:	HY-B1411S
CAS No.:	68922-44-1
Molecular Formula:	$C_6H_6D_6O_6$
Molecular Weight:	186.19
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

H_2O : 62.5 mg/mL (335.68 mM; Need ultrasonic and warming)
H2O : 62.5 mg/mL (335.68 mM; ultrasonic and warming and heat to 60°C)
DMSO : 10 mg/mL (53.71 mM; Need ultrasonic)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	5.3709 mL	26.8543 mL	53.7086 mL
5 mM	1.0742 mL	5.3709 mL	10.7417 mL
10 mM	0.5371 mL	2.6854 mL	5.3709 mL

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

BIOLOGICAL ACTIVITY

Description

i-Inositol-d_6 is the deuterium labeled i-Inositol. i-Inositol is a chemical compound, associated lipids are found in many foods, in particular fruit, especially cantaloupe and oranges.

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;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