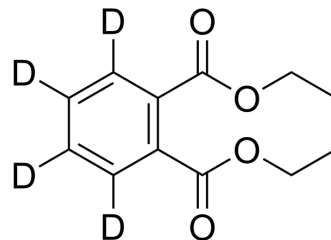


Diethyl phthalate-d4

Cat. No.:	HY-Y0284S	
CAS No.:	93952-12-6	
Molecular Formula:	C ₁₂ H ₁₀ D ₄ O ₄	
Molecular Weight:	226.26	
Target:	Isotope-Labeled Compounds	
Pathway:	Others	
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

DMSO : 100 mg/mL (441.97 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.4197 mL	22.0985 mL	44.1969 mL
	5 mM	0.8839 mL	4.4197 mL	8.8394 mL
	10 mM	0.4420 mL	2.2098 mL	4.4197 mL

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

BIOLOGICAL ACTIVITY

Description

Diethyl phthalate-d₄ is the deuterium labeled Diethyl phthalate[1].

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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