DEHP-d4

Cat. No.: HY-B1945S

CAS No.: 93951-87-2

Molecular Formula: $C_{24}H_{34}D_4O_4$

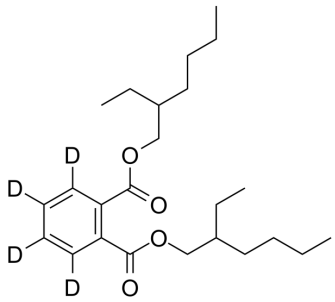
Molecular Weight: 394.58

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

DMSO : 100 mg/mL (253.43 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5343 mL	12.6717 mL	25.3434 mL
	5 mM	0.5069 mL	2.5343 mL	5.0687 mL
	10 mM	0.2534 mL	1.2672 mL	2.5343 mL

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

BIOLOGICAL ACTIVITY

Description

DEHP-d_4 is the deuterium labeled DEHP. DEHP (Bis(2-ethylhexyl) phthalate) is an endogenous metabolite.

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.

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