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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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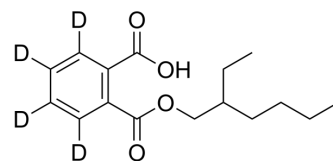
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Mono-(2-ethylhexyl) phthalate-d₄

Cat. No.:	HY-W018392S
CAS No.:	1276197-22-8
Molecular Formula:	C ₁₆ H ₁₈ D ₄ O ₄
Molecular Weight:	282.37
Target:	Isotope-Labeled Compounds; Endogenous Metabolite
Pathway:	Others; 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 (354.15 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.5415 mL	17.7073 mL	35.4145 mL
	5 mM		0.7083 mL	3.5415 mL	7.0829 mL
	10 mM		0.3541 mL	1.7707 mL	3.5415 mL

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

BIOLOGICAL ACTIVITY

Description

Mono-(2-ethylhexyl) phthalate-d₄ is a deuterium labeled Mono-(2-ethylhexyl) phthalate (HY-W018392). Mono-(2-ethylhexyl) phthalate (MEHP) is a major bioactive metabolite of diethylhexyl phthalate (DEHP). Mono-(2-ethylhexyl) phthalate can promote fatty acid synthesis in hepatocytes by regulating the expression of relevant genes and proteins, contributing to non-alcoholic fatty liver disease (NAFLD)^{[1][2]}.

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):211-246.

[2]. Bai J, et al. Mono-2-ethylhexyl phthalate induces the expression of genes involved in fatty acid synthesis in HepG2 cells. Environ Toxicol Pharmacol. 2019 Jul;69:104-111.

[3]. Tomita I, et al. Fetotoxic effects of mono-2-ethylhexyl phthalate (MEHP) in mice. Environ Health Perspect. 1986 Mar;65:249-54.

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

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