

Product Data Sheet

Monoethyl phthalate-d4

 Cat. No.:
 HY-133668S

 CAS No.:
 1219806-03-7

 Molecular Formula:
 C10H6D4O4

Molecular Weight: 198.21

Target: Isotope-Labeled Compounds

Pathway: Others

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: 50 mg/mL (252.26 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	5.0452 mL	25.2258 mL	50.4515 mL
	5 mM	1.0090 mL	5.0452 mL	10.0903 mL
	10 mM	0.5045 mL	2.5226 mL	5.0452 mL

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

BIOLOGICAL ACTIVITY

Description Monoethyl phthalate-d₄ is the deuterium labeled Monoethyl phthalate[1]. Monoethyl phthalate is a metabolite of diethyl

 $phthalate.\ Monoethyl\ phthalate\ acts\ as\ a\ urinary\ biomarker\ of\ phthalates\ exposure\ indicating\ the\ risks\ of\ thyroid\ cancer\ and\ phthalates\ exposure\ indicating\ the\ risks\ of\ thyroid\ cancer\ and\ phthalates\ phtha$

benign nodule[2][3].

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].

 $\label{eq:mce} \mbox{MCE has not independently confirmed the accuracy of these methods. They are for reference only.}$

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. Chong Liu, et al. Urinary biomarkers of phthalates exposure and risks of thyroid cancer and benign nodule. J Hazard Mater. 2020 Feb 5;383:121189.

3]. Celal Güven, et al. Low dosi 2016 Jul;93:41-50.	e monoethyl phthalate (MEP)	exposure triggers proliferation b	y activating PDX-1 at 1.1B4 human pancreatic be	eta cells. Food Chem Toxicol.
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