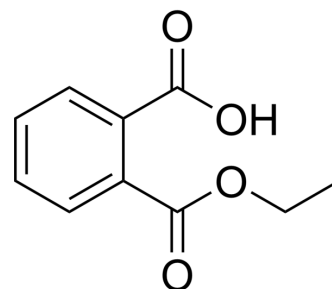


## Monoethyl phthalate

<b>Cat. No.:</b>	HY-133668		
<b>CAS No.:</b>	2306-33-4		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>10</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	194.18		
<b>Target:</b>	Drug Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	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 (514.99 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.1499 mL	25.7493 mL	51.4986 mL
	5 mM	1.0300 mL	5.1499 mL	10.2997 mL
	10 mM	0.5150 mL	2.5749 mL	5.1499 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (12.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (12.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (12.87 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

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 benign nodule<sup>[1]</sup>.

### REFERENCES

- [1]. 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.

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

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