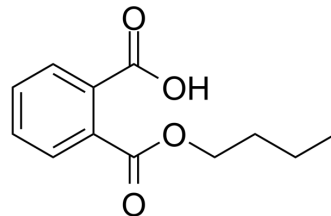


Monobutyl phthalate

Cat. No.:	HY-N7143		
CAS No.:	131-70-4		
Molecular Formula:	C ₁₂ H ₁₄ O ₄		
Molecular Weight:	222.24		
Target:	Others		
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 : 100 mg/mL (449.96 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.4996 mL	22.4982 mL	44.9964 mL
	5 mM	0.8999 mL	4.4996 mL	8.9993 mL
	10 mM	0.4500 mL	2.2498 mL	4.4996 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 (11.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (11.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (11.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Monobutyl phthalate, a major metabolite of dibutyl phthalate (DBP), possesses antiandrogenic effects. Monobutyl phthalate is an embryotoxicant^{[1][2]}.

CUSTOMER VALIDATION

-
- Environ Pollut. 2022 Jul 12;309:119756.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. van Dartel DA, et al. Early gene expression changes during embryonic stem cell differentiation into cardiomyocytes and their modulation by monobutyl phthalate. *Reprod Toxicol.* 2009 Apr;27(2):93-102.

[2]. Ema M, et al. Antiandrogenic effects of dibutyl phthalate and its metabolite, monobutyl phthalate, in rats. *Congenit Anom (Kyoto).* 2002 Dec;42(4):297-308.

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

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