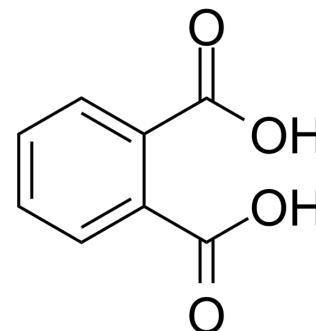


Phthalic acid

Cat. No.:	HY-I0508		
CAS No.:	88-99-3		
Molecular Formula:	C ₈ H ₆ O ₄		
Molecular Weight:	166.13		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (601.94 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	6.0194 mL	30.0969 mL	60.1938 mL
		5 mM	1.2039 mL	6.0194 mL	12.0388 mL
10 mM		0.6019 mL	3.0097 mL	6.0194 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (15.05 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (15.05 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (15.05 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Phthalic acid is the final common metabolite of phthalic acid esters (PAEs). Phthalic acid can be used for the synthesis of synthetic agents, such as isophthalic acid (IPA), and terephthalic acid (TPA). Phthalic acid has applications in the preparation of phthalate ester plasticizers ^[1] .
IC ₅₀ & Target	IC50: metabolite of PAEs ^[1]

CUSTOMER VALIDATION

- Theranostics. 2019 Sep 21;9(24):7108-7121.
- Aquaculture. 15 May 2022, 738015.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Du Yeon Bang, et al. Toxicological Characterization of Phthalic Acid. Toxicol Res 2011;27:191-203

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA