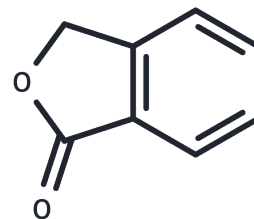


Phthalide

Chemical Properties

CAS No. :	87-41-2
Formula:	C ₈ H ₆ O ₂
Molecular Weight:	134.13
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Phthalide is a naturally occurring benzofuranone aromatic compound widely found in Apiaceae plants such as celery, angelica, and ligusticum. Phthalide can be used to synthesize various phthalate derivatives, including anti-inflammatory agents, antimicrobial agents, antioxidants, and blood-tumor barrier modulators.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	H ₂ O: 1.6 mg/mL (11.93 mM),Sonication is recommended. DMSO: 80 mg/mL (596.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.4555 mL	37.2773 mL	74.5545 mL
5 mM	1.4911 mL	7.4555 mL	14.9109 mL
10 mM	0.7455 mL	3.7277 mL	7.4555 mL
50 mM	0.1491 mL	0.7455 mL	1.4911 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Liu Zeng Chen, et al. Novel phthalide derivatives: Synthesis and anti-inflammatory activity in vitro and in vivo. *Eur J Med Chem.* 2020 Nov 15;206:112722.

Chakapong Intaraudom, et al. Antimicrobial drimane - phthalide derivatives from *Hypoxylon fendleri* BCC32408. *Fitoterapia.* 2019 Oct;138:104353.

Xin Fang, et al. Synthesis of phthalide derivatives and evaluation on their antiplatelet aggregation and antioxidant activities. *J Asian Nat Prod Res.* 2020 Dec;22(12):1176-1187.

Liu X, et al. Six Phthalides as Potent Modulators of the Blood Tumor Barrier Increase the Transmembrane Transport of Compatible Compounds Via Transcellular and Paracellular Pathways. *Pharmaceutical Chemistry Journal*, 2024, 57(12): 1967-1976.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481