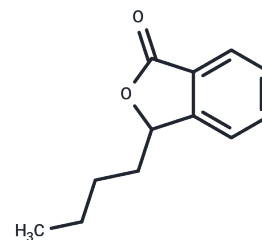


Butylphthalide

Chemical Properties

CAS No. :	6066-49-5
Formula:	C ₁₂ H ₁₄ O ₂
Molecular Weight:	190.24
Storage:	Keep away from direct sunlight Pure form: -20°C for 3 years In solvent: -80°C for 1 year



Actual storage temperature shall be subject to the COA.

Biological Description

Description	Butylphthalide (3-Butylphthalide) is an anti-cerebral-ischemia drug; first isolated from the seeds of <i>Apium graveolens</i> Linn.
Targets(IC50)	Others,p38 MAPK
In vivo	Butylphthalide alleviates oxidative stress caused by chronic cerebral ischemia, improves cholinergic function, and inhibits amyloid beta accumulation, thereby improving cerebral neuronal injury and cognitive deficits [1]. Intragastric NBP administration to 4-month-old SAMP8 mice for 2 months significantly improved spatial learning and memory ability. Moreover, the loss of choline acetyltransferase (ChAT)-positive neurons in the medial septal nucleus and the vertical limb of the diagonal band in SAMP8 mice was slowed down, as was the decline in the protein and mRNA expression of ChAT in the hippocampus, cerebral cortex, and forebrain [2].

Solubility Information

Solubility	DMSO: 250 mg/mL (1314.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (52.57 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (10.51 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2565 mL	26.2826 mL	52.5652 mL
5 mM	1.0513 mL	5.2565 mL	10.513 mL
10 mM	0.5257 mL	2.6283 mL	5.2565 mL
50 mM	0.1051 mL	0.5257 mL	1.0513 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

Zhao W, et al. 3-N-butylphthalide improves neuronal morphology after chronic cerebral ischemia. *Neural Regen Res.* 2014 Apr 1;9(7):719-26.

Wang F, et al. Improvement of cognitive deficits in SAMP8 mice by 3-n-butylphthalide. *Neurol Res.* 2014 Mar;36(3):224-33.

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