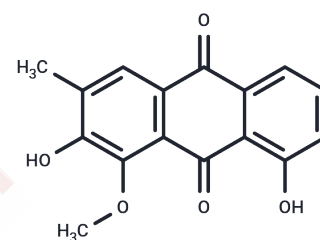


Obtusifolin

Chemical Properties

CAS No. :	477-85-0
Formula:	C ₁₆ H ₁₂ O ₅
Molecular Weight:	284.26
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	1. Obtusifolin has antioxidant properties and improves chemically induced diabetes and its complications by modulation of oxidative stress. 2. Obtusifolin suppresses phthalate esters-mediated bone resorption, thus may be a novel anti-breast-cancer bone metastasis agent. 3. Obtusifolin has beneficial effects on the development of diabetic retinopathy via inhibition of accumulation of oxidatively modified DNA and nitrotyrosine in the retina, can help prevent vision loss in diabetic patients. 4. Obtusifolin and gluco-Obtusifolin produce significant antinociceptive action in rodent behavioral models of inflammatory/neuropathic pain, and that this activity is associated with modulation of neuroinflammation in spinal cord. 5. Gluco-Obtusifolin and its aglycone may be useful for the treatment of cognitive impairment, and that its beneficial effects are mediated, in part, by the enhancement of cholinergic signaling.
Targets(IC50)	Antioxidant,NF-κB

Solubility Information

Solubility	DMSO: 23 mg/mL (80.91 mM),Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5179 mL	17.5895 mL	35.1791 mL
5 mM	0.7036 mL	3.5179 mL	7.0358 mL
10 mM	0.3518 mL	1.759 mL	3.5179 mL
50 mM	0.0704 mL	0.3518 mL	0.7036 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.

Reference

Hsu Y L , Tsai E M , Hou M F , et al. Obtusifolin Suppresses Phthalate Esters-Induced Breast Cancer Bone Metastasis by Targeting Parathyroid Hormone-Related Protein[J]. Journal of Agricultural & Food Chemistry, 2014, 62(49): 11933-40.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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