

Moracin O

Chemical Properties

CAS No. : 123702-97-6

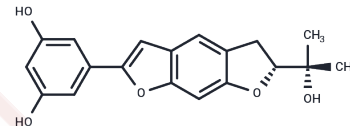
Formula: C₁₉H₁₈O₅

Molecular Weight: 326.34

Keep away from direct sunlight

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	Moracin O, a natural product isolated from <i>Morus alba</i> Linn., exhibits cytotoxicity towards 3T3-L1, RAW 264.7, and HEP 3B cells, inhibits HIF-1, and demonstrates neuroprotective and anti-inflammatory effects.
Targets(IC50)	HIF/HIF Prolyl-Hydroxylase,HIF,ROS
In vitro	Moracin O can dose-dependently increase the survival rate of neuroblastoma SH-SY5Y cells against oxygen-glucose deprivation (OGD)-induced cell death, with a half-maximal effective concentration (EC ₅₀) of 12.6μM [2]. Moracin O can reduce the generation of reactive oxygen species (ROS) in OGD-induced cell death, with a half-maximal inhibitory concentration (IC ₅₀) of 0.3μM [2]. Moracin O can protect nerve cells from oxidative stress damage caused by oxygen-glucose deprivation [2].

Solubility Information

Solubility	DMSO: 80 mg/mL (245.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0643 mL	15.3214 mL	30.6429 mL
5 mM	0.6129 mL	3.0643 mL	6.1286 mL
10 mM	0.3064 mL	1.5321 mL	3.0643 mL
50 mM	0.0613 mL	0.3064 mL	0.6129 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

Phenolic constituents from the root bark of *Morus alba* L. and their cardioprotective activity in vitro. *Phytochemistry*. 2017 Mar;135:128-134.

Hak Ju Lee, et al. Inhibitory effect of 2-arylbenzofurans from the Mori Cortex Radicis (Moraceae) on oxygen glucose deprivation (OGD)-induced cell death of SH-SY5Y cells. *Arch Pharm Res*. 2011 Aug;34(8):1373-80.

Yan Xia, et al. HIF-1 α inhibitors: synthesis and biological evaluation of novel moracin O and P analogues. *Eur J Med Chem*. 2011 Jun;46(6):2386-96.

Besse Hardianti, et al. Anti-inflammatory compounds moracin O and P from *Morus alba* Linn. (Sohakuhi) target the NF- κ B pathway. *Mol Med Rep*. 2020 Dec;22(6):5385-5391.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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