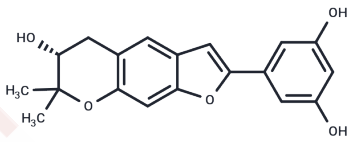
Data Sheet (Cat.No.TN1952)

TargetMol

Moracin P

Chemical Properties



CAS No. :	102841-46-3
Formula:	C19H18O5
Molecular Weight:	326.34
Storage:	Keep away from moisture,Keep away from direct sunlight 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 P, a 2-arylbenzofuran derivative isolated from Mori Cortex Radicis, shows potent in vitro inhibitory activity against hypoxia-inducible factor (HIF-1). This compound reduces oxygen-glucose deprivation-induced reactive oxygen species generation while demonstrating neuroprotective and anti-inflammatory properties.
Targets(IC50)	Reactive Oxygen Species,HIF/HIF Prolyl-Hydroxylase,HIF,ROS
In vitro	Moracin P enhances the cell viability of SH-SY5Y cells in a dose-dependent manner with an EC50 value of 10.4 μM. [1]

Solubility Information

Solubility	DMSO: ≥ 80 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.13 mM),Sonication is recommended. *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.*

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

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.