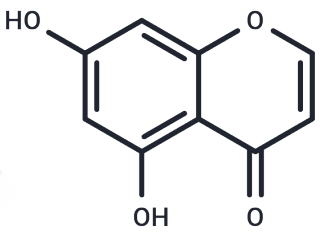
Data Sheet (Cat.No.T5S1805)

TargetMol

5,7-Dihydroxychromone

Chemical Properties



CAS No. : 31721-94-5

Formula: C9H6O4

Molecular Weight: 178.14

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	1. 5,7-Dihydroxychromone (5,7-Dihydroxy-4H-Chromen-4-One) isolated from DME is one of the active compounds that may contribute to regulate blood glucose levels. 2. 5,7-Dihydroxychromone exerts neuroprotective effect against 6-OHDA-induced oxidative stress and apoptosis by activating Nrf2/ARE signal . 3. 5,7-Dihydroxychromone induces the translocation of Nrf2 to the nucleus and increases Nrf2/ARE binding activity which results in the up-regulation of the expression of Nrf2-dependent antioxidant genes, including HO-1, NQO1, and GCLc.
Targets(IC50)	Anti-infection,Caspase,Nrf2,PARP,Virus Protease

Solubility Information

Solubility	DMSO: 50 mg/mL (280.68 mM),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 (11.23 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	5.6136 mL	28.0678 mL	56.1356 mL
5 mM	1.1227 mL	5.6136 mL	11.2271 mL
10 mM	0.5614 mL	2.8068 mL	5.6136 mL
50 mM	0.1123 mL	0.5614 mL	1.1227 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

Kim D W , Lee K T , Kwon J , et al. Neuroprotection against 6-OHDA-induced oxidative stress and apoptosis in SH-SY5Y cells by 5,7-Dihydroxychromone: Activation of the Nrf2/ARE pathway[J]. Life Sciences, 2015, 130:25-30.