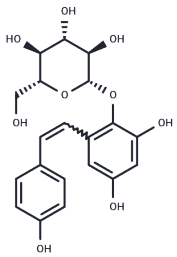
Data Sheet (Cat.No.T4956)

TargetMol

Tetrahydroxystilbene-2-O-β-D-glucoside

Chemical Properties



CAS No. : 55327-45-2

Formula: C20H22O9

Molecular Weight: 406.38

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	Tetrahydroxystilbene-2-O-β-D-glucoside (EH-201) is a low MW inducer of erythropoietin. Tetrahydroxystilbene-2-O-β-D-glucoside induces expression of erythropoietin, PPAR-γ coactivator 1α (PGC-1α) and haemoglobin in astrocytes and PC12 neuronal-like cells. In vivo, Tetrahydroxystilbene-2-O-β-D-glucoside treatment restores memory impairment, as assessed by the passive avoidance test, in SD, Aβ and KA mouse models. In the hippocampus of mice given Tetrahydroxystilbene-2-O-β-D-glucoside in their diet, levels of erythropoietin, PGC-1α and haemoglobin were increased. Treatment with Tetrahydroxystilbene-2-O-β-D-glucoside might be a therapeutic strategy for memory impairment in neurodegenerative disease, physiological ageing or traumatic brain injury.
Targets(IC50)	Apoptosis,Others

Solubility Information

Solubility	DMSO: 60 mg/mL (147.65 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 (4.92 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	2.4608 mL	12.3038 mL	24.6075 mL
5 mM	0.4922 mL	2.4608 mL	4.9215 mL
10 mM	0.2461 mL	1.2304 mL	2.4608 mL
50 mM	0.0492 mL	0.2461 mL	0.4922 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

Activating mitochondrial function and haemoglobin expression with EH-201, an inducer of erythropoietin in neuronal cells, reverses memory impairment[J]. British Journal of Pharmacology, 2015, 172(19):4741-4756.
Liu T, Shi J, Wu D, et al.THSG alleviates cerebral ischemia/reperfusion injury via the GluN2B-CaMKII-ERK1/2 pathway.Phytomedicine.2024: 155595.