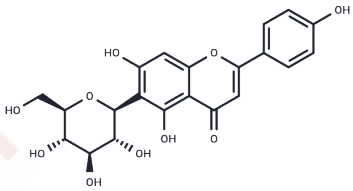
Data Sheet (Cat.No.T6S1371)

TargetMol

Isovitexin

Chemical Properties



CAS No. : 38953-85-4

Formula: C21H20O10

Molecular Weight: 432.38

Storage: Store at low temperature,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	1. Isovitexin (Apigenin-6-C-Glucoside) exhibits a potential antioxidant activity. 2. Isovitexin shows a strong antihyperglycemic action, inhibits α-glucosidase in vivo.
Targets(IC50)	NF-κB,Glucosidase,JNK

Solubility Information

Solubility	DMSO: 250 mg/mL (578.2 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: 3.3 mg/mL (7.63 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	2.3128 mL	11.5639 mL	23.1278 mL
5 mM	0.4626 mL	2.3128 mL	4.6256 mL
10 mM	0.2313 mL	1.1564 mL	2.3128 mL
50 mM	0.0463 mL	0.2313 mL	0.4626 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

Santos K C D , Borges T V , Olescowicz G , et al. Passiflora actinia hydroalcoholic extract and its major constituent, isovitexin, are neuroprotective against glutamate-induced cell damage in mice hippocampal slices[J]. Journal of Pharmacy & Pharmacology, 2016.

Jung M A, Song H K, Jo K, et al.Gleditsia sinensis Lam. aqueous extract attenuates nasal inflammation in allergic rhinitis by inhibiting MUC5AC production through suppression of the STAT3/STAT6 pathway.Biomedicine & Pharmacotherapy.2023, 161: 114482.

Kostelac A, Taborda A, Martins L O, et al.Evolution and separation of actinobacterial pyranose and C-glycoside-3-oxidases.Applied and Environmental Microbiology.2024: e01676-23.

Characterization of a Pyranose Oxidase/C-Glycoside Oxidase from Microbacterium sp. 3H14, Belonging to the Unexplored Clade II of Actinobacterial POx/CGOx