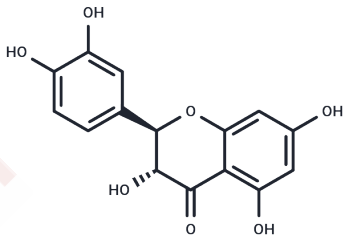
Data Sheet (Cat.No.T1738)

TargetMol

Taxifolin

Chemical Properties



CAS No. : 480-18-2

Formula: C15H12O7

Molecular Weight: 304.25

Storage: 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	Taxifolin (Dihydroquercetin) is a flavonoid in many plants such as Taxus chinensis, Siberian larch, Cedrus deodara and so on.
Targets(IC50)	Adrenergic Receptor,Autophagy,TNF,Tyrosinase,VEGFR
In vivo	Taxifolin is easily metabolized, and its metabolites are prevalent in vivo, although limited data exists on its in vivo metabolism[5]. Metabolites with the same fragment pattern may share the same pharmacophore, exerting the same pharmacological effects as taxifolin through an additive effect on the same drug targets. Thus, taxifolin is bioactive in both its parent form and through its metabolites.

Solubility Information

Solubility	DMSO: 65 mg/mL (213.64 mM),Sonication is recommended. Ethanol: 56 mg/mL (184.06 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), (< 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 (6.57 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	3.2868 mL	16.4339 mL	32.8677 mL
5 mM	0.6574 mL	3.2868 mL	6.5735 mL
10 mM	0.3287 mL	1.6434 mL	3.2868 mL
50 mM	0.0657 mL	0.3287 mL	0.6574 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

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