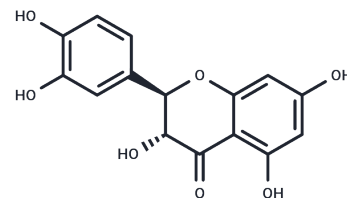


Taxifolin

Chemical Properties

CAS No. :	480-18-2
Formula:	C ₁₅ H ₁₂ O ₇
Molecular Weight:	304.25
Appearance:	no data available
Storage:	keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Taxifolin (Dihydroquercetin) is a flavonoid in many plants such as Taxus chinensis, Siberian larch, Cedrus deodara and so on.
Targets(IC50)	VEGFR,TNF,Tyrosinase,Adrenergic Receptor,Autophagy
In vivo	Taxifolin may be easily metabolized and that its metabolites are the prevalent form in vivo, although limited information is available on metabolism of Taxifolin in vivo[5]. Metabolites with the same fragment pattern may have the same pharmacophore. Thus these metabolites may exert the same pharmacological effects as taxifolin through an additive effect on the same drug targets. This observation indicates that taxifolin is bioactive not only in the parent form, but also through its metabolites.

Solubility Information

Solubility	DMSO: 56 mg/mL (184.1 mM), Ethanol: 56 mg/mL (184.1 mM), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), < 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

Reference

Abderrezag N, Montenegro Z J S, Louaer O, et al. One-step sustainable extraction of Silymarin compounds of wild Algerian milk thistle (*Silybum marianum*) seeds using Gas Expanded Liquids. Journal of Chromatography A. 2022: