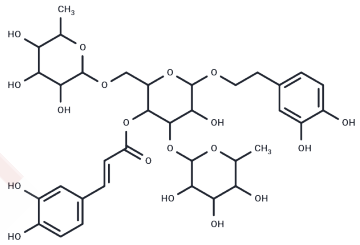
Data Sheet (Cat.No.T6S2384)

TargetMol

Poliumoside

Chemical Properties



CAS No. : 94079-81-9

Formula: C35H46O19

Molecular Weight: 770.73

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	Poliumoside is a natural compound which exhibits significant inhibition of advanced glycation end product formation with IC50 value of 4.6-25.7 μM, it also exhibits great inhibitory effects on rat lens aldose reductase with IC50 values of 0.85 μM.Poliumoside has oxidant scavenging, antibacterial and hemostasis capacities, it can inhibit Biofilm-forming Staphylococcus aureus in mice.
Targets(IC50)	Reductase

Solubility Information

Solubility	DMSO: 262 mg/mL (339.94 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: 5 mg/mL (6.49 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	1.2975 mL	6.4874 mL	12.9747 mL
5 mM	0.2595 mL	1.2975 mL	2.5949 mL
10 mM	0.1297 mL	0.6487 mL	1.2975 mL
50 mM	0.0259 mL	0.1297 mL	0.2595 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

Tai BH, et al.Total peroxynitrite scavenging capacity of phenylethanoid and flavonoid glycosides from the flowers of Buddleja officinalis.

Yu SY, et al. Caffeoylated phenylpropanoid glycosides from Brandisia hancei inhibit advanced glycation end product formation and aldose reductase in vitro and vessel dilation in larval zebrafish in vivo. Planta Med. 2013 Dec;79(18):1705-9.