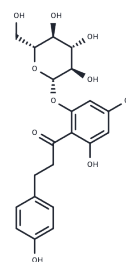


Phlorizin

Chemical Properties

CAS No. :	60-81-1
Formula:	C ₂₁ H ₂₄ O ₁₀
Molecular Weight:	436.41
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	Phlorizin (Phloridzin) is a non-selective SGLT inhibitor found in apple, for hSGLT1(Ki=300 nM) and hSGLT2(Ki=39 nM) .
Targets(IC50)	ATPase,SGLT
In vivo	In the treatment of diabetes, obesity, and stress-induced hyperglycemia, Phlorizin exerts its therapeutic effects by inhibiting the sodium-glucose cotransporters located in the proximal renal tubules and the intestinal mucosa. This inhibition results in renal glucosuria and impedes the absorption of glucose in the intestines.

Solubility Information

Solubility	Ethanol: 43.6 mg/mL (99.91 mM),Sonication is recommended. DMSO: 118 mg/mL (270.39 mM),Sonication is recommended. H ₂ O: < 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: 4 mg/mL (9.17 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2914 mL	11.4571 mL	22.9142 mL
5 mM	0.4583 mL	2.2914 mL	4.5828 mL
10 mM	0.2291 mL	1.1457 mL	2.2914 mL
50 mM	0.0458 mL	0.2291 mL	0.4583 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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