

Rhapontin

Chemical Properties

CAS No. :	155-58-8
Formula:	C ₂₁ H ₂₄ O ₉
Molecular Weight:	420.41
Storage:	Keep away from direct sunlight,Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	1. Rhapontin (Ponticin) can alleviate liver steatosis and improve blood glucose and lipid profiles in KK/Ay diabetic mice, indicates that rhaponticin has a noticeable antidiabetic effect and could be potentially used as a new agent to treat type 2 diabetes mellitus and its complications.
Targets(IC50)	Apoptosis

Solubility Information

Solubility	Ethanol: Soluble, DMSO: 250 mg/mL (594.66 mM),Sonication is recommended. Pyridine, Methanol, etc.: 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 (4.76 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	2.3786 mL	11.8932 mL	23.7863 mL
5 mM	0.4757 mL	2.3786 mL	4.7573 mL
10 mM	0.2379 mL	1.1893 mL	2.3786 mL
50 mM	0.0476 mL	0.2379 mL	0.4757 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

Chen J , Ma M , Lu Y , et al. Rhaponticin from Rhubarb Rhizomes Alleviates Liver Steatosis and Improves Blood Glucose and Lipid Profiles in KK/Ay Diabetic Mice[J]. *Planta medica*, 2009, 75(5).

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