

Praeruptorin B

Chemical Properties

CAS No. : 73069-28-0

Formula: C₂₄H₂₆O₇

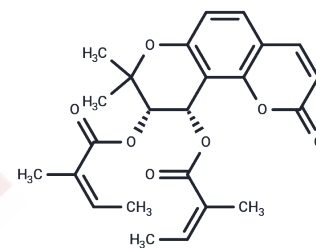
Molecular Weight: 426.46

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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	Praeruptorin B (Praeruptorin D), a compound found in the roots of Peuced, is an inhibitor of sterol regulatory element-binding proteins (SREBPs) that attenuates the metastatic ability of human renal cancer cells by targeting CTSC and CTSV expression, and can be used in the study of osteoporosis.
Targets(IC50)	NPC1L1, Fatty Acid Synthase
In vitro	Praeruptorin B inhibited the activity of SREBPs and reduced intracellular lipid levels, and significantly down-regulated the expression of SREBP-1c and SREBP-2. Praeruptorin B potentially reduced SRE-luciferase activity and the effect was dose-dependent.[1]
In vivo	Mice treated with 50 mg/kg Praeruptorin B weighed significantly less than those treated with the vector, although they were still heavier than mice fed regular chow, suggesting that Praeruptorin B ameliorates diet-induced obesity (DIO). Staining results showed that Praeruptorin B-treated mice exhibited less lipid accumulation than vector-treated mice. Elevated fasting blood glucose and insulin levels in high-fat diet-fed mice were significantly reduced by Praeruptorin B. The results showed that the elevated fasting blood glucose and insulin levels in Praeruptorin B-treated mice were significantly reduced. [1]

Solubility Information

Solubility	DMSO: 20 mg/mL (46.9 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.69 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	2.3449 mL	11.7244 mL	23.4489 mL
5 mM	0.469 mL	2.3449 mL	4.6898 mL
10 mM	0.2345 mL	1.1724 mL	2.3449 mL
50 mM	0.0469 mL	0.2345 mL	0.469 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

Zheng Z G ,et al. Praeruptorin B improves diet-induced hyperlipidemia and alleviates insulin resistance via regulating SREBP signaling pathway (vol 8, pg 354, 2018)[J].RSC Advances, 2019(11):9.

Liu X, et al. The Inhibition of UDP-Glucuronosyltransferase (UGT) Isoforms by Praeruptorin A and B. Phytother Res. 2016 Nov;30(11):1872-1878.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481