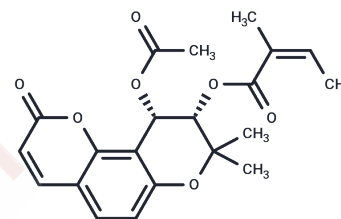


Praeruptorin A

Chemical Properties

CAS No. :	73069-27-9
Formula:	C ₂₁ H ₂₂ O ₇
Molecular Weight:	386.4
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	Praeruptorin A ((+)-Praeruptorin A) has the potential to inhibit migration/fusion of preosteoclasts in vitro and bone erosion in vivo by targeting calmodulin and inhibiting the Ca(2+)/calmodulin-CaMKIV-CREB-NFATc1 and/or Ca(2+)/calmodulin-calcineurin-NFATc1 signaling axis.
Targets(IC50)	CaMK,NF-κB

Solubility Information

Solubility	DMSO: 45 mg/mL (116.46 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: 2 mg/mL (5.18 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	2.588 mL	12.940 mL	25.8799 mL
5 mM	0.5176 mL	2.588 mL	5.176 mL
10 mM	0.2588 mL	1.294 mL	2.588 mL
50 mM	0.0518 mL	0.2588 mL	0.5176 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

Xu Z1, Wang X, Dai Y, Kong L, et al.(+/-)-Praeruptorin A enantiomers exert distinct relaxant effects on isolated rat aorta rings dependent on endothelium and nitric oxide synthesis.Chem Biol Interact. 2010 Jul 30;186(2):239-46.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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