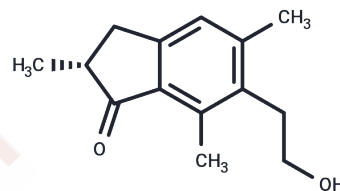


Pterosin B

Chemical Properties

CAS No. :	34175-96-7
Formula:	C ₁₄ H ₁₈ O ₂
Molecular Weight:	218.29
Storage:	Store at low temperature 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	Pterosin B is a salt-inducible kinase 3 (Sik3) signaling inhibitor widely found in leaves and shoots of green plants. Pterosin B promotes the expression of G6pc, protects against Ang II-induced cardiomyocyte hypertrophy, and acts through the regulation of the expression level of NAD(P)H oxidase 2/4.
Targets(IC50)	Beta Amyloid, KLF, SIK

Solubility Information

Solubility	DMSO: 100 mg/mL (458.11 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: 3.3 mg/mL (15.12 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	4.5811 mL	22.9053 mL	45.8106 mL
5 mM	0.9162 mL	4.5811 mL	9.1621 mL
10 mM	0.4581 mL	2.2905 mL	4.5811 mL
50 mM	0.0916 mL	0.4581 mL	0.9162 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

Hannah R.Dexter, et al. A concise stereoselective synthesis of pterosin B. Tetrahedron Letters, Volume 59, Issue 49, 5 December 2018, Pages 4323-4325.

Yahara Y, et al. Pterosin B prevents chondrocyte hypertrophy and osteoarthritis in mice by inhibiting Sik3. Nat Commun. 2016 Mar 24;7:10959.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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