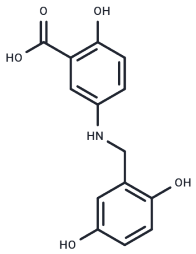
Data Sheet (Cat.No.T4185)

TargetMol

lavendustin C

Chemical Properties



CAS No. : 125697-93-0

Formula: C14H13NO5

Molecular Weight: 275.26

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	lavendustin C (NSC 666251) is a potent inhibitor of epidermal growth factor (EGF) receptor-associated tyrosine kinase.
Targets(IC50)	CaMK,EGFR,Src,Tyrosinase

Solubility Information

Solubility	DMSO: 60 mg/mL (217.98 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 (7.27 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6329 mL	18.1646 mL	36.3293 mL
5 mM	0.7266 mL	3.6329 mL	7.2659 mL
10 mM	0.3633 mL	1.8165 mL	3.6329 mL
50 mM	0.0727 mL	0.3633 mL	0.7266 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

Nynca A, et al. Effects of the phytoestrogen, genistein, and protein tyrosine kinase inhibitor-dependent mechanisms on steroidogenesis and estrogen receptor expression in porcine granulosa cells of medium follicles. Domest Anim Endocrinol. 2013 Jan;44(1):10-8

Kobayashi T,et al. Involvement of CaM kinase II in the impairment of endothelial function and eNOS activity in aortas of Type 2 diabetic rats. Clin Sci (Lond). 2012 Sep;123(6):375-86

Opałka M, etal. Genistein affects testosterone secretion by Leydig cells in roosters (Gallus gallus domesticus). Reprod Biol. 2004 Jul;4(2):185-93.

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