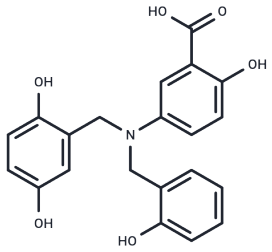
Data Sheet (Cat.No.T4183)

TargetMol

lavendustin A

Chemical Properties



CAS No. : 125697-92-9

Formula: C21H19NO6

Molecular Weight: 381.38

Storage: 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	lavendustin A (RG-14355) is a potent, cell-permeable inhibitor of epidermal growth factor receptor (EGFR) tyrosine kinase.
Targets(IC50)	EGFR,Tyrosinase

Solubility Information

Solubility	DMSO: 9.5 mg/mL (24.91 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: 1 mg/mL (2.62 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	2.6221 mL	13.1103 mL	26.2206 mL
5 mM	0.5244 mL	2.6221 mL	5.2441 mL
10 mM	0.2622 mL	1.311 mL	2.6221 mL
50 mM	0.0524 mL	0.2622 mL	0.5244 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

Nam DH, et al. Synthesis and anticancer activity of chromone-based analogs of lavendustin A. Eur J Med Chem. 2010 Sep;45(9):4288-92

Löber K, et al. Influence of the tyrosine kinase inhibitors STI571 (Glivec), lavendustin A and genistein on human mast cell line (HMC-1(560)) activation. J Cell Biochem. 2008 Mar 1;103(4):1076-88

Lee KY, et al. Synthesis and anticancer activity of lavendustin A derivatives containing arylethenylchromone substituents. Eur J Med Chem. 2006 Aug;41(8):1991-6

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