
Product Data Sheet

Product Name: Lavendustin A

Cat. No.: GC16021

Chemical Properties

Cas. No. 125697-92-9

Chemical Name 5-((2,5-dihydroxybenzyl)(2-hydroxybenzyl)amino)-2-hydroxybenzoic acid

SMILES OC(C(CN(C(C=C1C(O)=O)=CC=C1O)CC2=CC=CC=C2O)=C3)=CC=C3OFormula C₂₁H₁₉NO₆ M.Wt 381.38

Solubility DMF: 20 mg/ml, DMF:PBS(pH 7.2)(1:1): 0.5 mg/ml, DMSO: 15 mg/ml, Ethanol: 10 mg/ml Storage Desiccate at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure **Background**

Lavendustin A (RG-14355), isolated from *Streptomyces Griseolavendus*, is a potent, specific and ATP-competitive inhibitor of tyrosine kinase, with an IC₅₀ of 11 ng/mL for EGFR-associated tyrosine kinase[1]. It suppresses VEGF-induced angiogenesis and blocks the induction of LTPGABA-A[2][3].

References:

- [1]. Onoda T, et al. Isolation of a novel tyrosine kinase inhibitor, lavendustin A, from *Streptomyces griseolavendus*. *J Nat Prod.* 1989 Nov-Dec;52(6):1252-7.
- [2]. Hu DE, et al. Suppression of VEGF-induced angiogenesis by the protein tyrosine kinase inhibitor, lavendustin A. *Br J Pharmacol.* 1995 Jan;114(2):262-8.
- [3]. Gubellini P, et al. Endogenous neurotrophins are required for the induction of GABAergic long-term potentiation in the neonatal rat hippocampus. *J Neurosci.* 2005 Jun 15;25(24):5796-802.

Caution: Product has not been fully validated for medical applications. For research use only.

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