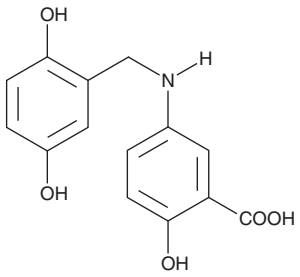
PRODUCT INFORMATION

Lavendustin C

Item No. 10010329

CAS Registry No.: 125697-93-0
Formal Name: 5-[[(2,5-dihydroxyphenyl)methyl] amino]-2-hydroxy-benzoic acid
Synonyms: HDBA, NSC 666251
MF: $C_{14}H_{13}NO_5$
FW: 275.3
Purity: ≥98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Lavendustin C is supplied as a crystalline solid. A stock solution may be made by dissolving the lavendustin C in the solvent of choice, which should be purged with an inert gas. Lavendustin C is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of lavendustin C in these solvents is approximately 30 mg/ml.

Description

Lavendustin C, a derivative of a *Streptomyces griseolavendus* butyl acetate extract, is a potent inhibitor of epidermal growth factor (EGF) receptor-associated tyrosine kinase with an IC_{50} value of 0.012 µM.[1] lavendustin C also inhibits $pp60^{c\text{-}src(+)}$ kinase and Ca^{2+} calmodulin-dependent kinase II with IC_{50} values of 0.5 and 0.2 µM, respectively.[2] At a concentration of 10-150 µM, lavendustin C inhibits tyrosine kinase-associated neutrophil degranulation and superoxide generation.[3]

References

1. Onoda, T., Iinuma, H., Sasaki, Y., *et al.* Isolation of a novel tyrosine kinase inhibitor, lavendustin A, from *Streptomyces griseolavendus*. *J. Nat. Prod.* **52(6)**, 1252-1257 (1989).
2. O'Dell, T.J., Kandel, E.R., and Grant, S.G.N. Long-term potentiation in the hippocampus is blocked by tyrosine kinase inhibitors. *Nature* **353(6344)**, 558-560 (1991).
3. Burt, H.M., Jackson, J.K., and Salari, H. Inhibition of crystal-induced neutrophil activation by a protein tyrosine kinase inhibitor. *J. Leukoc. Biol.* **55(1)**, 112-119 (1994).

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