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DATASHEET

Lavendustin C

Product overview

Name	Lavendustin C
Cat No	HB0376
Biological action	Inhibitor
Purity	>98%
Description	Potent EGFR tyrosine kinase inhibitor

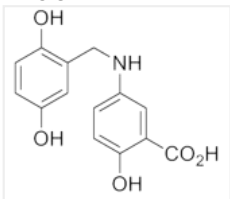
Biological Data

Biological description	Potent EGF receptor tyrosine kinase ($IC_{50} = 11$ nM) and c-src ($IC_{50} = 500$ nM) inhibitor. Inhibits Ca^{2+} /calmodulin kinase II ($IC_{50} = 200$ nM). Blocks LTP induction.
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Solubility & Handling

Solubility overview	Soluble in DMSO or methanol
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	5-((2,5-Dihydroxybenzyl)amino)-2-hydroxybenzoic acid
Molecular Weight	275.3
Chemical structure	
Molecular Formula	$C_{14}H_{13}NO_5$
CAS Number	125697-93-0
PubChem identifier	3896
SMILES	<chem>C1=CC(=C(C=C1NCC2=C(C=CC(=C2)O)O)C(=O)O)O</chem>

References

Isolation of a novel tyrosine kinase inhibitor, lavendustin A, from *Streptomyces griseolavendus*.

Onoda T *et al* (1989) J Nat Prod 52(6)
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Long-term potentiation in the hippocampus is blocked by tyrosine kinase inhibitors.

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Involvement of Ca²⁺/calmodulin-dependent protein kinase II in endothelial NO production and endothelium-dependent relaxation.

Schneider JC *et al* (2003) Am J Physiol Heart Circ Physiol 284(6)

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Role of the mitogen-activated protein kinases and tyrosine kinases during leukotriene B₄-induced eosinophil activation.

Lindsay MA *et al* (1998) J Leukoc Biol 64(4)

PubMedID [9766637](#)
