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DATASHEET

(-)-Indolactam V

Product overview

Name	(-)-Indolactam V
Cat No	HB0002
Biological action	Activator
Purity	>99%
Description	Synthetic PKC activator

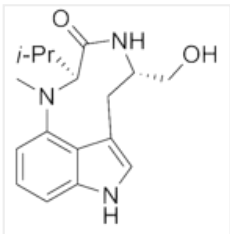
Biological Data

Biological description	Synthetic protein kinase C (PKC) inhibitor. Also induces embryonic stem cell differentiation. Displays tumor promoting properties with mitogenic and comitogenic activating effects.
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Solubility & Handling

Solubility overview	Soluble in DMSO (10mM)
Storage instructions	-20 °C (desiccate)
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions Important	Stable for ambient temperature shipping. Follow storage instructions on receipt. 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	(2 <i>S</i> ,5 <i>S</i>) (-)-1,2,4,5,6,8-Hexahydro-5-(hydroxymethyl)-1-methyl-2-(1-methylethyl)-3 <i>H</i> -pyrrolo[4,3,2- <i>gh</i>]-1,4-benzodiazonin-3-one
Molecular Weight	301.38
Chemical structure	
Molecular Formula	C ₁₇ H ₂₃ N ₃ O ₂
CAS Number	90365-57-4
PubChem identifier	0
SMILES	CC(C)[C@@H]1N(C)c2cccc3[nH]cc(C[C@@H](CO)NC1=O)c23

References

Synthesis and biological activities of indolactone-V, the lactone analogue of the tumor promoter (-)-indolactam-V.

Nakagawa Y *et al* (1997) Biosci Biotechnol Biochem 61(8)

PubMedID

9301127

(-)-Indolactam V activates protein kinase C and induces changes in muscarinic receptor functions in SH-SY5Y human neuroblastoma cells.

Heikkilä J *et al* (1989) Biochem Biophys Res Commun 162(3)

PubMedID

2764930

(-)-Indolactam V-induced mitogenesis in human fetal/neonatal and adult T cells: lower response of neonatal cells and possible regulatory role of monocytes in protein kinase C-mediated pathways.

Papadogiannakis N (1995) Cell Immunol 162(2)

PubMedID

7743557

A small molecule that directs differentiation of human ESCs into the pancreatic lineage.

Chen S *et al* (2009) Nat Chem Biol 5(4)

PubMedID

19287398
