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DATASHEET

LY 333531 hydrochloride

Product overview

Name	LY 333531 hydrochloride
Cat No	HB0393
Alternative names	Ruboxistaurin
Description	Potent, selective, competitive PKC inhibitor

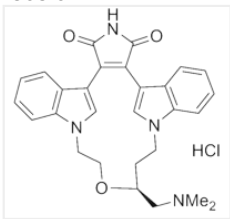
Biological Data

Biological description	Potent, selective and competitive protein kinase C (PKC) inhibitor. Selective for PKC β I and PKC β II (IC ₅₀ values are 4.7 and 5.9 nM respectively) over PKC α by 76- and 61- fold respectively. Shows antinociceptive actions against and improves vascular function in diabetes.
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Solubility & Handling

Solubility overview	Soluble in DMSO (20mM)
Storage instructions	-20 °C
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	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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	(9S)-9-[(Dimethylamino)methyl]-6,7, 10,11-tetrahydro-9H,18H-5,21:12,17-dimethenodibenz o[e,k]pyrrolo[3,4-h][1,4,13]oxadiazacyclohexadecin e-18,20(19H)-dione hydrochloride
Molecular Weight	505.01
Chemical structure	
Molecular Formula	C ₂₈ H ₂₈ N ₄ O ₃ ·HCl
CAS Number	169939-93-9
PubChem identifier	9870785
SMILES	<chem>O=C(C(C4=CN(CCO[C@H](CN(C)C)CC6)C5=C4C=CC=C5)=C1C2=CN6C3=CC=CC=C23)NC1=O.Cl</chem>
InChiKey	NYQIEYDJYFVLPO-FERBBOLQSA-N

References

(S)-13-[(dimethylamino)methyl]-10,11,14,15-tetrahydro-4,9:16, 21-dimetheno-1H, 13H-dibenzo[e,k]pyrrolo[3,4-h][1,4,13]oxadiazacyclohexadecene-1,3(2H)-dione (LY333531) and related analogues: isozyme

selective inhibitors of protein kinase C beta.

Jirousek MR *et al* (1996) J Med Chem 39(14)

PubMedID [8709095](#)

Protein kinase Cbeta selective inhibitor LY333531 attenuates diabetic hyperalgesia through ameliorating cGMP level of dorsal root ganglion neurons.

Kim H *et al* (2003) Diabetes 52(8)

PubMedID [12882929](#)

Effects of the protein kinase C beta inhibitor LY333531 on neural and vascular function in rats with streptozotocin-induced diabetes.

Cotter MA *et al* (2002) Clin Sci (Lond) 103(3)

PubMedID [12193157](#)
