

Ruboxistaurin HCl

SYN-1172

(9S)-9-[(dimethylamino)methyl]-6,7,10,11-tetrahydro-9H,18H-5,21:12,17-di(metheno)dibenzo[e,k]pyrrolo[3,4-h][1,4,13]oxadiazacyclohexadecine-18,20-dione hydrochloride

CAS Registry No.: 169939-93-9

Smiles String:

O=C(N1)C(C2=CN3C4=C2C=CC=C4)=C(C5=CN(CC[C@@H](CN(C)C)OCC3)C6=C5C=CC=C6)C1=O.[H]Cl

Molecular Weight: 505.01

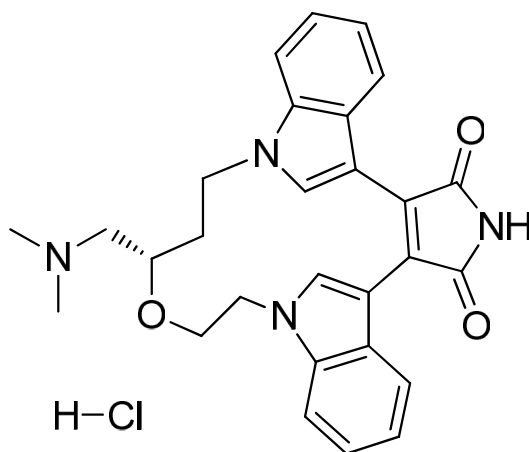
Molecular Formula: C₂₈H₂₈N₄O₃.HCl

Lot Number: Refer to vial

¹H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

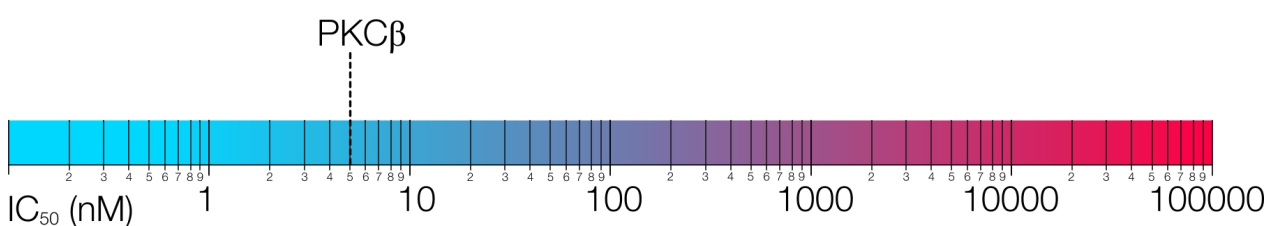
ES-MS: Available on request



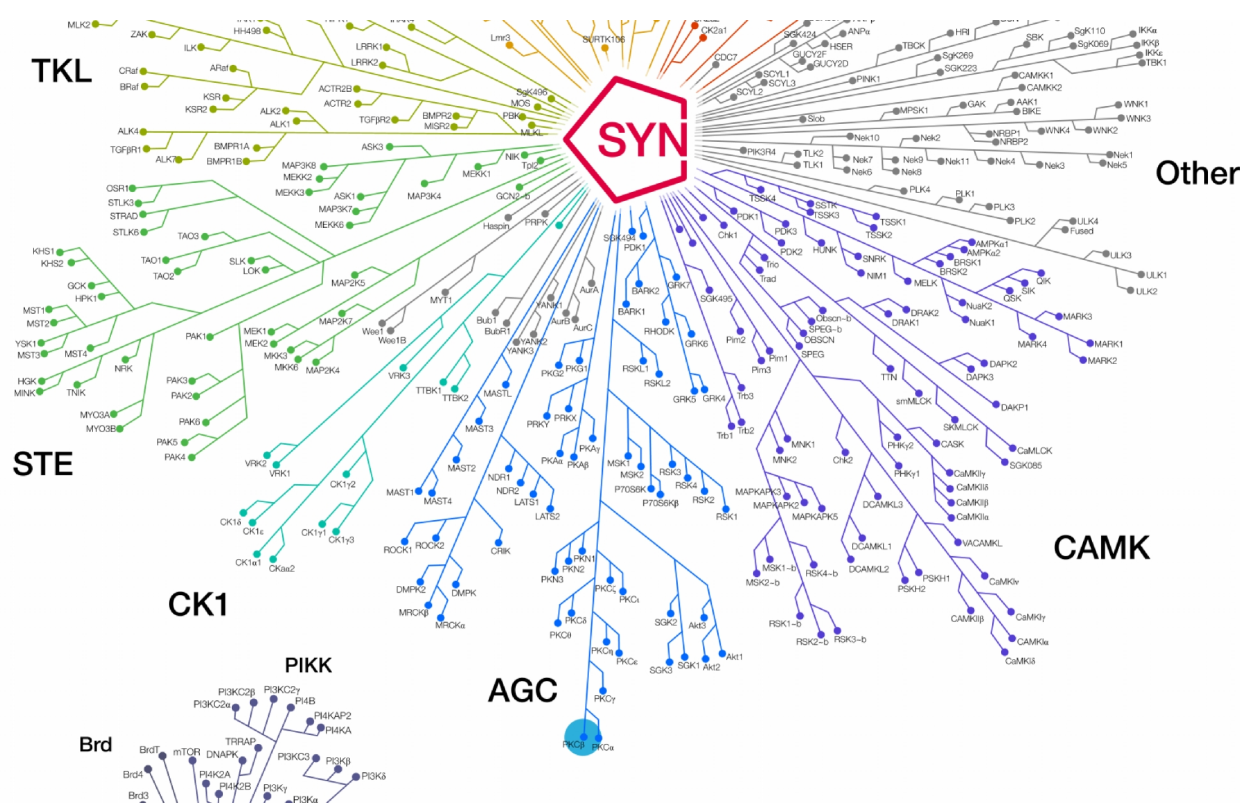
Description:

LY333531 is a potent, selective inhibitor of Protein Kinase C isozymes, PKC β (IC₅₀ of 4.7 nM) and PKC β 1 (IC₅₀ of 5.9 nM).

Biological Activity



Kinome Mapping



Shipping and Storage Temperature

Shipping:
Ambient

Storage:
2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

Solubility

20 mM in DMSO

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.5051	5.0510	10.1020	25.2550

References

1. Jirousek MR, Gillig JR, Gonzalez CM, Heath WF, McDonald JH 3rd, Neel DA, Rito CJ, Singh U, Stramm LE, Melikian-Badalian A, Baevsky M, Ballas LM, Hall SE, Winneroski LL, Faul MM. (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. *J Med Chem.* 1996 Jul 5;39(14):2664-71.
2. Samokhin GP, Jirousek MR, Ways DK, Henriksen RA. Effects of protein kinase C inhibitors on thromboxane production by thrombin-stimulated platelets. *Eur J Pharmacol.* 1999 Dec 15;386(2-3):297-303.
3. Faul MM, Gillig JR, Jirousek MR, Ballas LM, Schotten T, Kahl A, Mohr M. Acyclic N-(azacycloalkyl)bisindolylmaleimides: isozyme selective inhibitors of PKCbeta. *Bioorg Med Chem Lett.* 2003 Jun 2;13(11):1857-9.

Ordering Information

To order more of this or any other SYNkinase compound, go to synkinase.com, Call us Toll Free (US Only) at 1- 877-854-6273 or email orders@synkinase.com.

Product Datasheet (Rev. 1.1)