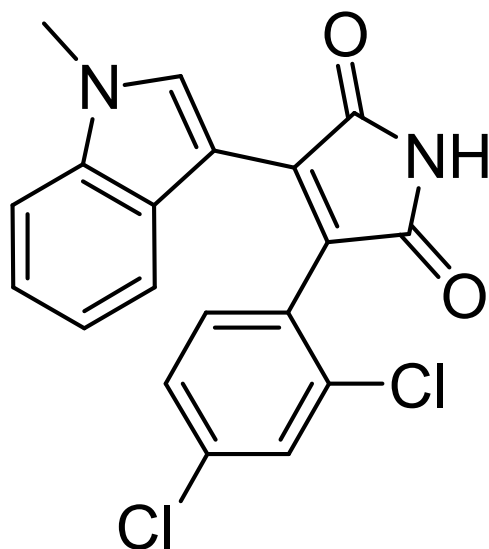


SB-216763

SYN-1075



3-(2,4-dichlorophenyl)-4-(1-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione

CAS Registry No.: 280744-09-4

Smiles String:

Cn1cc(c2c1cccc2)C3=C(C(=O)NC3=O)c4c
cc(cc4Cl)Cl

Molecular Weight: 371.22

Molecular Formula: C₁₉H₁₂Cl₂N₂O₂

Lot Number: Refer to vial

¹H-NMR: Available on request

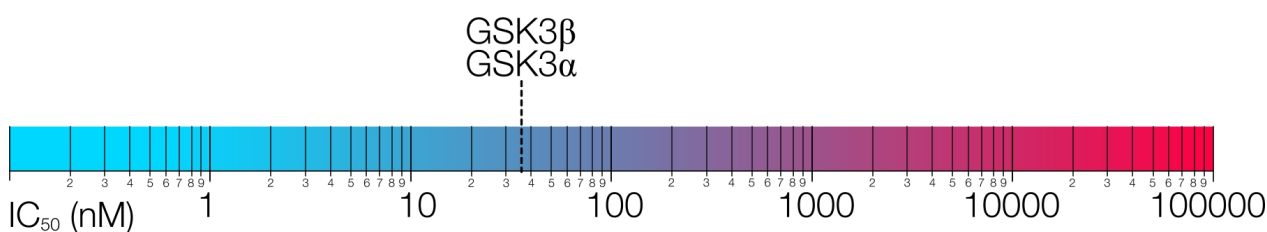
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

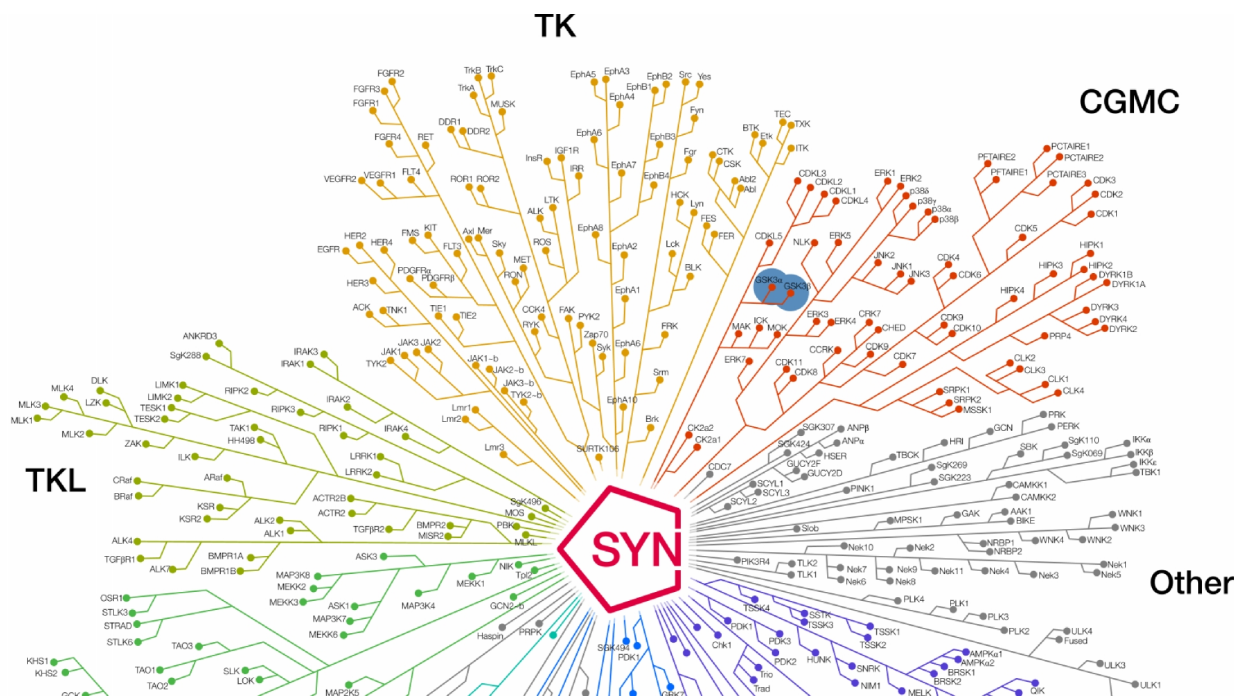
Description:

SB-216763 is a potent and selective ATP-competitive GSK-3 inhibitor with an IC₅₀ of 34.3 nM for GSK-3alpha, and similar activity for GSK-3beta.

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

DMSO 23mg/mL, Ethanol 1mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.3712	3.7122	7.4244	18.5610

References

1. Coghlan MP, Culbert AA, Cross DA, Corcoran SL, Yates JW, Pearce NJ, Rausch OL, Murphy GJ, Carter PS, Roxbee Cox L, Mills D, Brown MJ, Haigh D, Ward RW, Smith DG, Murray KJ, Reith AD, Holder JC. Selective small molecule inhibitors of glycogen synthase kinase-3 modulate glycogen metabolism and gene transcription. *Chem Biol.* 2000 Oct;7(10):793-803.
2. Cross DA, Culbert AA, Chalmers KA, Facci L, Skaper SD, Reith AD. Selective small-molecule inhibitors of glycogen synthase kinase-3 activity protect primary neurones from death. *J Neurochem.* 2001 Apr;77(1):94-102.
3. Liang MH, Chuang DM. Regulation and function of glycogen synthase kinase-3 isoforms in neuronal survival. *J Biol Chem.* 2007 Feb 9;282(6):3904-17. Epub 2006 Dec 5.

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)