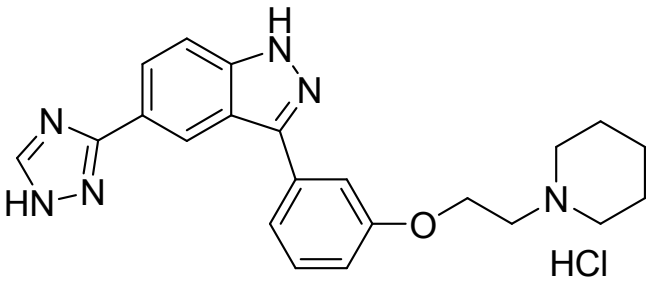
CC-401 HCl

SYN-1028



3-(3-(2-(piperidin-1-yl)ethoxy)phenyl)-5-(1H-1,2,4-triazol-3-yl)-1H-indazole hydrochloride

CAS Registry No.: 1438391-30-0

Smiles String:
c1cc(cc(c1)OCCN2CCCCC2)c3c4cc(ccc4[nH]n3)c5nc[nH]n5.Cl

Molecular Weight: 424.93

Molecular Formula: C22H24N6O.HCl

Lot Number: Refer to vial

1H-NMR: Available on request

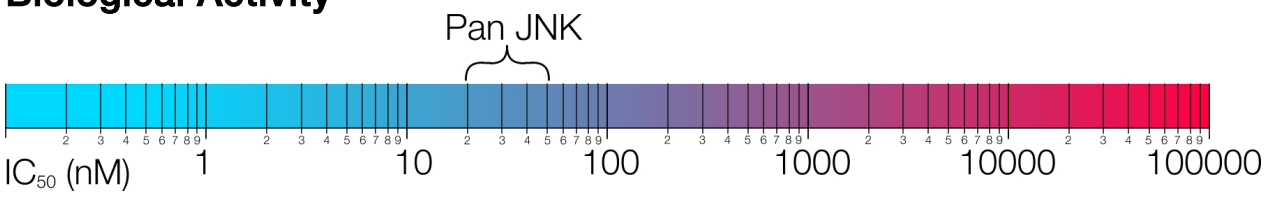
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

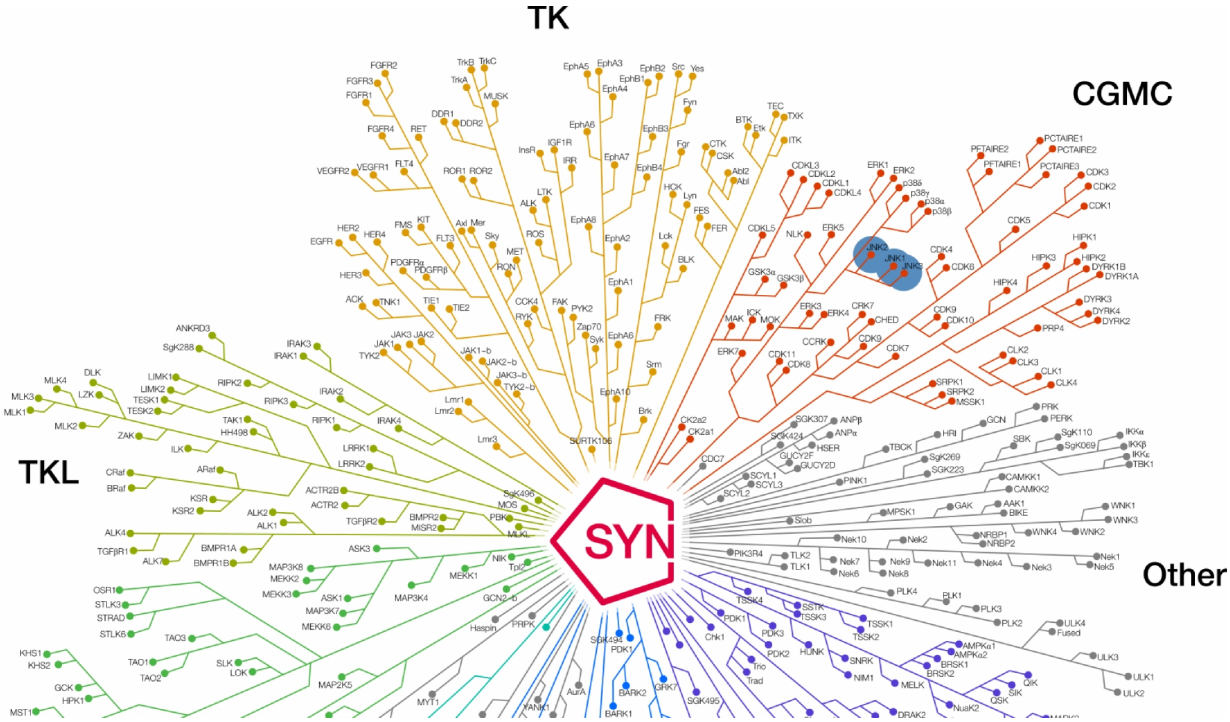
Description:

CC-401 is a competitive inhibitor of the ATP binding site in the active, phosphorylated, form of JNK. This prevents JNK from phosphorylating its various target molecules, including the amino terminus of c-Jun. It is a potent inhibitor of all three forms of JNK (Ki of 25-50 nM), and has at least 40-fold selectivity for JNK compared with other related kinases, including: p38, ERK, IKK2, PKC, Lck, and ZAP70. CC-401 acts to inhibit JNK signaling by competitive binding to the adenosine triphosphate-binding site in the active, phosphorylated, form of JNK, resulting in inhibition of the phosphorylation of JNK targets, such as the amino-terminal activation domain of the transcription factor, c-Jun. In cell-based assays, 1-5 µmol/l CC-401 provides specific JNK inhibition.

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

15 mM in DMSO

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.4250	4.2500	8.5000	21.2500

References

1. Ma FY, Flanc RS, Tesch GH, Han Y, Atkins RC, Bennett BL, Friedman GC, Fan JH, Nikolic-Paterson DJ . A pathogenic role for c-Jun amino-terminal kinase signaling in renal fibrosis and tubular cell apoptosis. J Am Soc Nephrol. 2007 Feb;18(2):472-84. Epub 2007 Jan 3.

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.