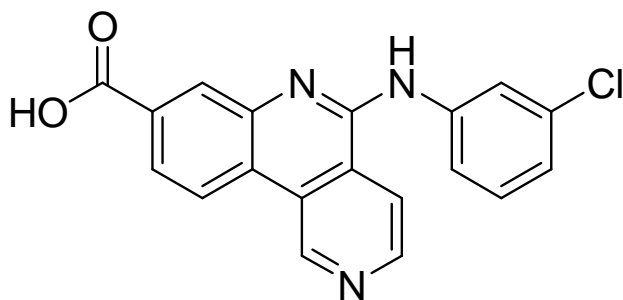


CX-4945

SYN-1109



5-(3-chlorophenylamino)benzo[c][2,6]naphthyridine-8-carboxylic acid

CAS Registry No.: 1009820-21-6

Smiles String:

C1=CC(=CC(=C1)Cl)NC2=NC3=C(C=CC(=C3)C(=O)O)C4=C2C=CN=C4

Molecular Weight: 349.77

Molecular Formula: C₁₉H₁₂ClN₃O₂

Lot Number: Refer to vial

¹H-NMR: Available on request

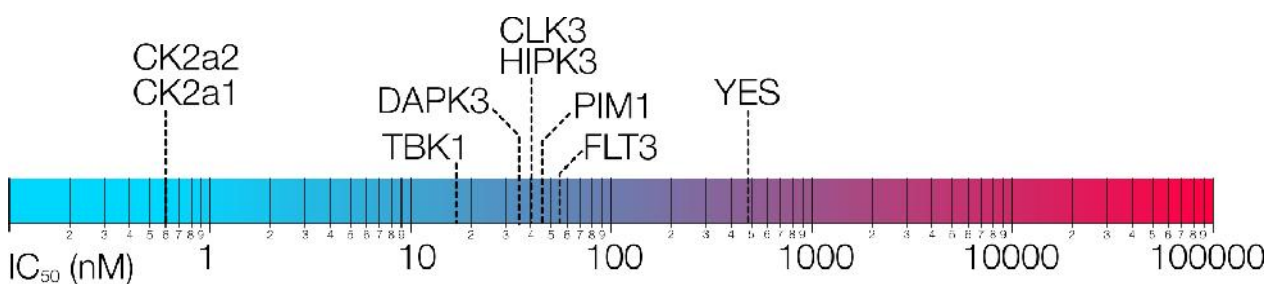
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

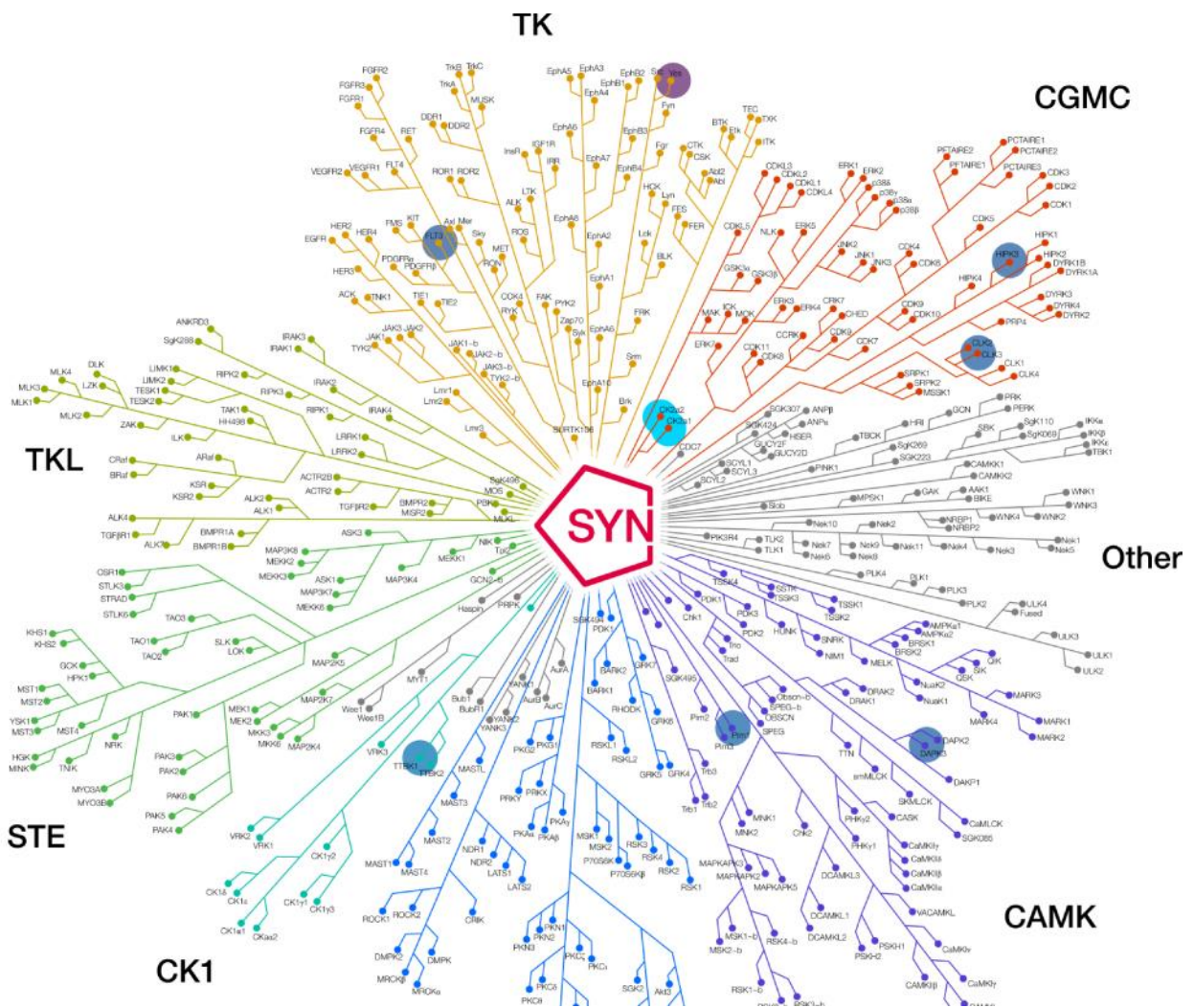
Description:

CX-4945 is a first-in-class, orally active, potent and selective inhibitor of the protein kinase CK2, with an IC₅₀ of 1 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

DMSO 16mg/mL, Ethanol 1mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.3498	3.4980	6.9960	17.4900

References

1. Pierre F, Chua PC, O'Brien SE, Siddiqui-Jain A, Bourbon P, Haddach M, Michaux J, Nagasawa J, Schwaebe MK, Stefan E, Vialettes A, Whitten JP, Chen TK, Darjania L, Stansfield R, Anderes K, Bliesath J, Drygin D, Ho C, Omori M, Proffitt C, Streiner N, Trent K, Rice WG, Ryckman DM. Discovery and SAR of 5-(3-chlorophenylamino)benzo[c][2,6]naphthyridine-8-carboxylic acid (CX-4945), the first clinical stage inhibitor of protein kinase CK2 for the treatment of cancer. *J Med Chem.* 2011 Jan 27;54(2):635-54. doi: 10.1021/jm101251q. Epub 2010 Dec 21.

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)