

BMS387032 HCl

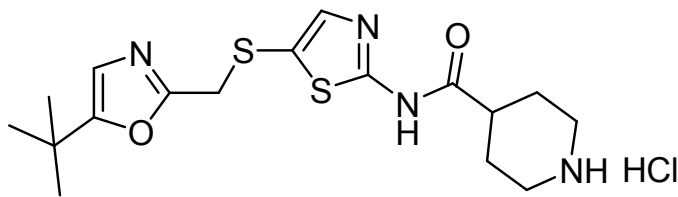
SYN-1080

N-(5-((5-tert-butyloxazol-2-yl)methylthio)thiazol-2-yl)piperidine-4-carboxamide hydrochloride

CAS Registry No.: 345627-90-9

Smiles String:

CC(C)(C)c1cnc(o1)CSc2cnc(s2)NC(=O)C3CCNCC3.Cl



Molecular Weight: 416.99

Molecular Formula: C₁₇H₂₄N₄O₂S₂.HCl

Lot Number: Refer to vial

¹H-NMR: Available on request

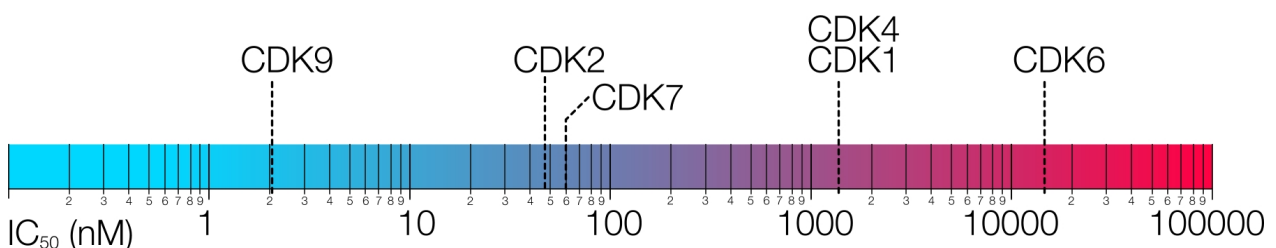
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

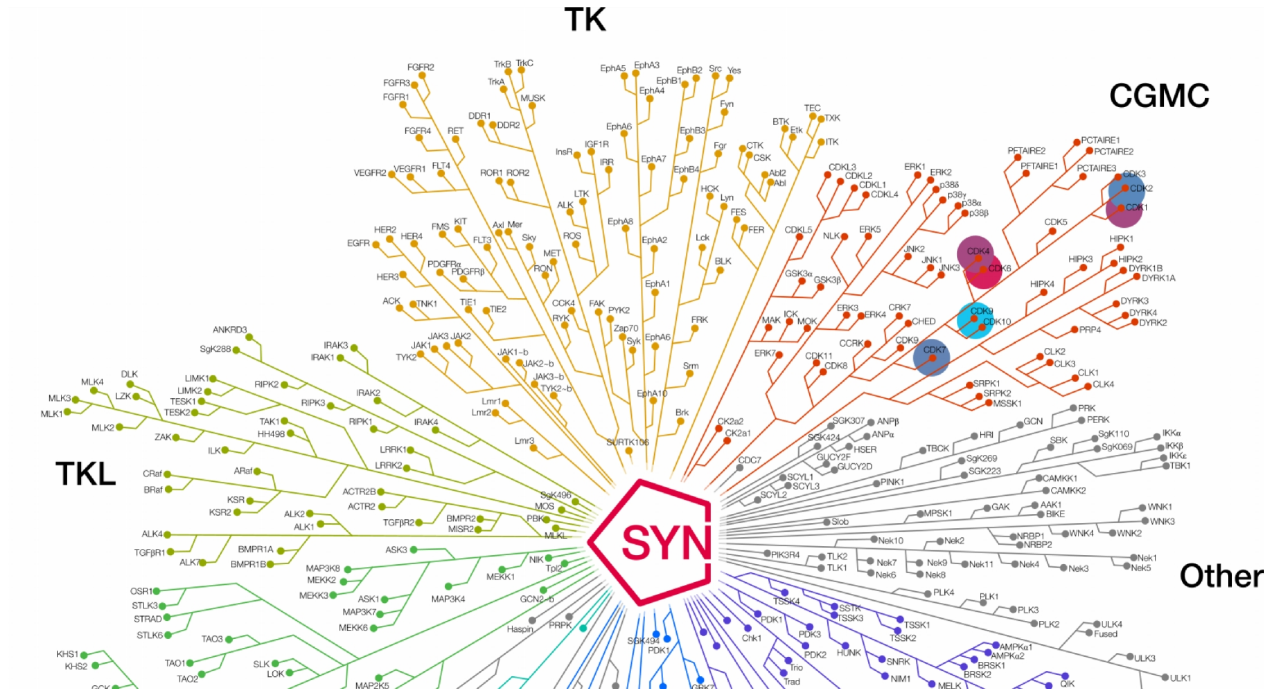
Description:

BMS387032 is a novel cyclin-dependent kinase inhibitor, which exhibits potent and selective inhibitory activity against Cdk2, Cdk7, and Cdk9. It inhibits CDK2 with an IC₅₀ of 48 nM and up to 20-fold selective over CDK1/CDK4. It also inhibits CDK7/9 with IC₅₀ values of 62 nM and 4 nM. It has little effect on CDK6.

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 76mg/mL, Ethanol 1mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.4169	4.1699	8.3398	20.8495

References

1. Misra RN, Xiao HY, Kim KS, Lu S, Han WC, Barbosa SA, Hunt JT, Rawlins DB, Shan W, Ahmed SZ, Qian L, Chen BC, Zhao R, Bednarz MS, Kellar KA, Mulheron JG, Batorsky R, Roongta U, Kamath A, Marathe P, Ranadive SA, Sack JS, Tokarski JS, Pavletich NP, Lee FY, Webster KR, Kimball SD. N-(cycloalkylamino)acyl-2-aminothiazole inhibitors of cyclin-dependent kinase 2. N-[5-[[[5-(1,1-dimethylethyl)-2-oxazolyl]methyl]thio]-2-thiazolyl]-4-piperidinecarboxamide (BMS-387032), a highly efficacious and selective antitumor agent. *J Med Chem.* 2004 Mar 25;47(7):1719-28.

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)