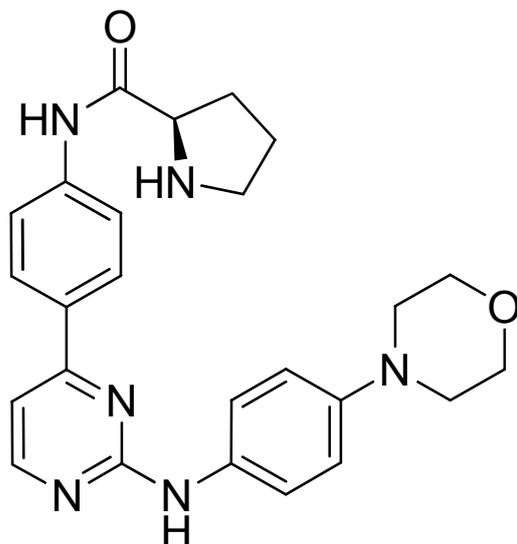


XL019

SYN-1191



(R)-N-(4-(2-((4-morpholinophenyl)amino)pyrimidin-4-yl)phenyl)pyrrolidine-2-carboxamide

CAS Registry No.: 945750-13-0

Smiles String:

O=C([C@H]1CCCN1)NC2=CC=C(C3=NC(NC4=CC=C(N5CCOCC5)C=C4)=NC=C3)C=C2

Molecular Weight: 444.53

Molecular Formula: C₂₅H₂₈N₆O₂

Lot Number: Refer to vial

¹H-NMR: Available on request

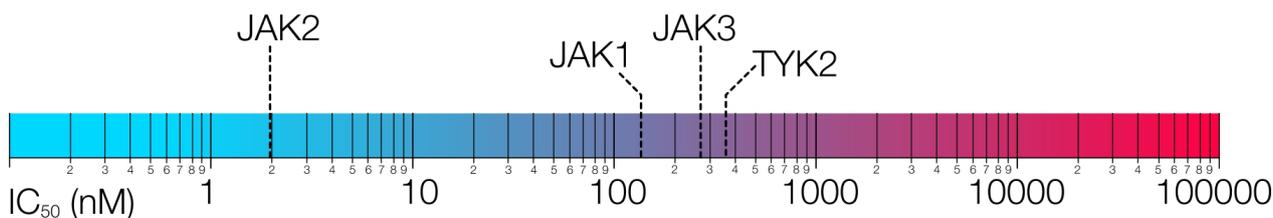
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

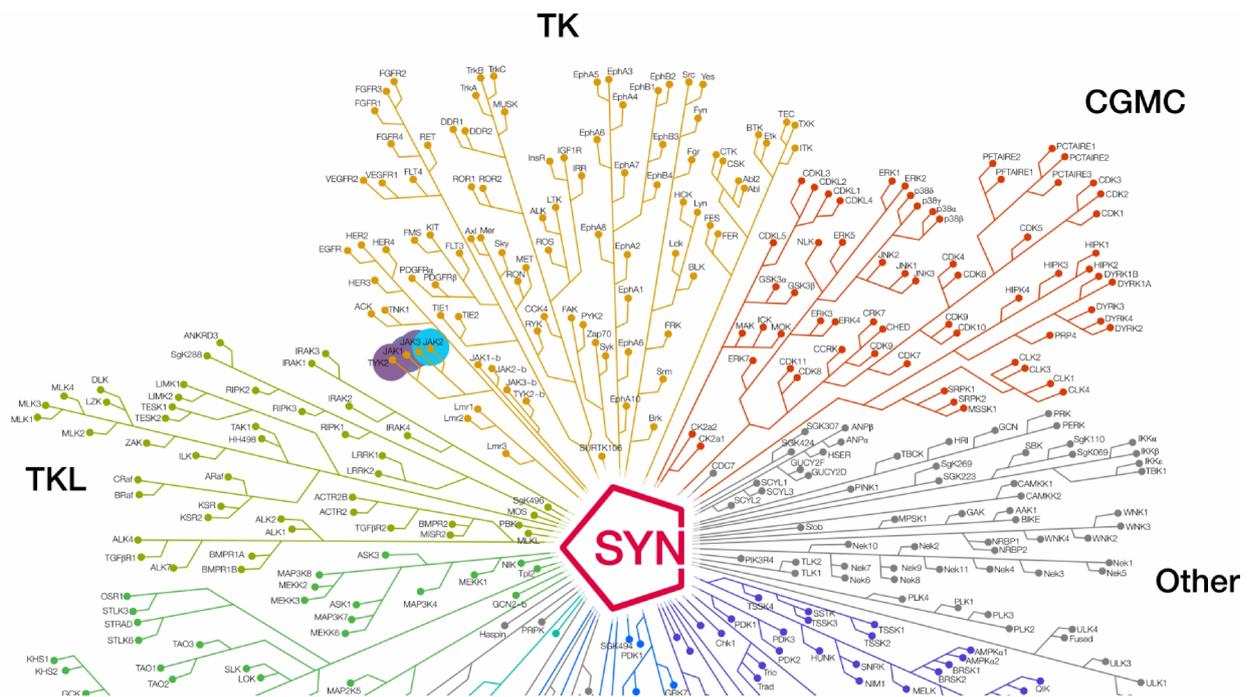
Description:

XL019 is a potent JAK2 inhibitor (IC₅₀ of 2 nM) with excellent selectivity versus the other members of the JAK kinase family (JAK1, IC₅₀ of 130 nM; JAK3, IC₅₀ of 250 nM; TYK2, IC₅₀ of 340 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)	0.4446	4.4460	8.8920	22.2300

References

1. Forsyth T, Kearney PC, Kim BG, Johnson HW, Aay N, Arcalas A, Brown DS, Chan V, Chen J, Du H, Epshteyn S, Galan AA, Huynh TP, Ibrahim MA, Kane B, Koltun ES, Mann G, Meyr LE, Lee MS, Lewis GL, Noguchi RT, Pack M, Ridgway BH, Shi X, Takeuchi CS, Zu P, Leahy JW, Nuss JM, Aoyama R, Engst S, Gendreau SB, Kassees R, Li J, Lin SH, Martini JF, Stout T, Tong P, Woolfrey J, Zhang W, Yu P. SAR and in vivo evaluation of 4-aryl-2-aminoalkylpyrimidines as potent and selective Janus kinase 2 (JAK2) inhibitors. *Bioorg Med Chem Lett*. 2012 Dec 15;22(24):7653-8. doi: 10.1016/j.bmcl.2012.10.007. Epub 2012 Oct 16. PubMed PMID: 23127890.

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)