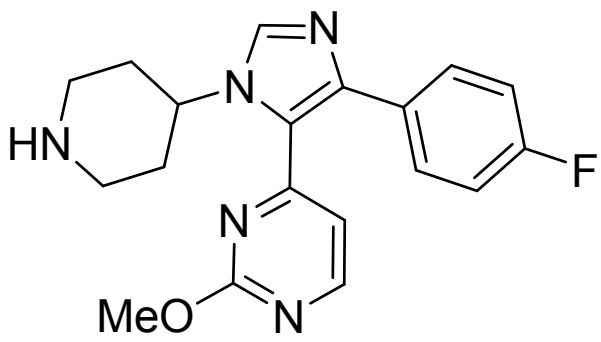
SB-242235

SYN-1076



4-(4-(4-fluorophenyl)-1-(piperidin-4-yl)-1H-imidazol-5-yl)-2-methoxypyrimidine

CAS Registry No.: 193746-75-7

Smiles String: COc1nccc(n1)c2c(ncn2C3CCNCC3)c4ccc(cc4)F

Molecular Weight: 353.39

Molecular Formula: C19H20FN5O

Lot Number: Refer to vial

1H-NMR: Available on request

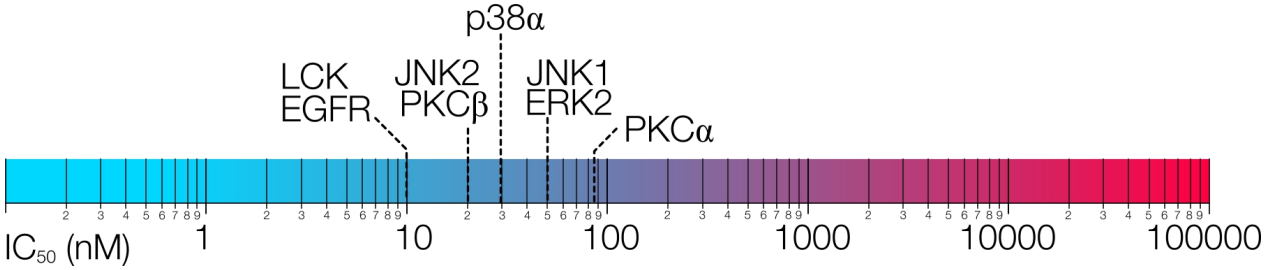
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

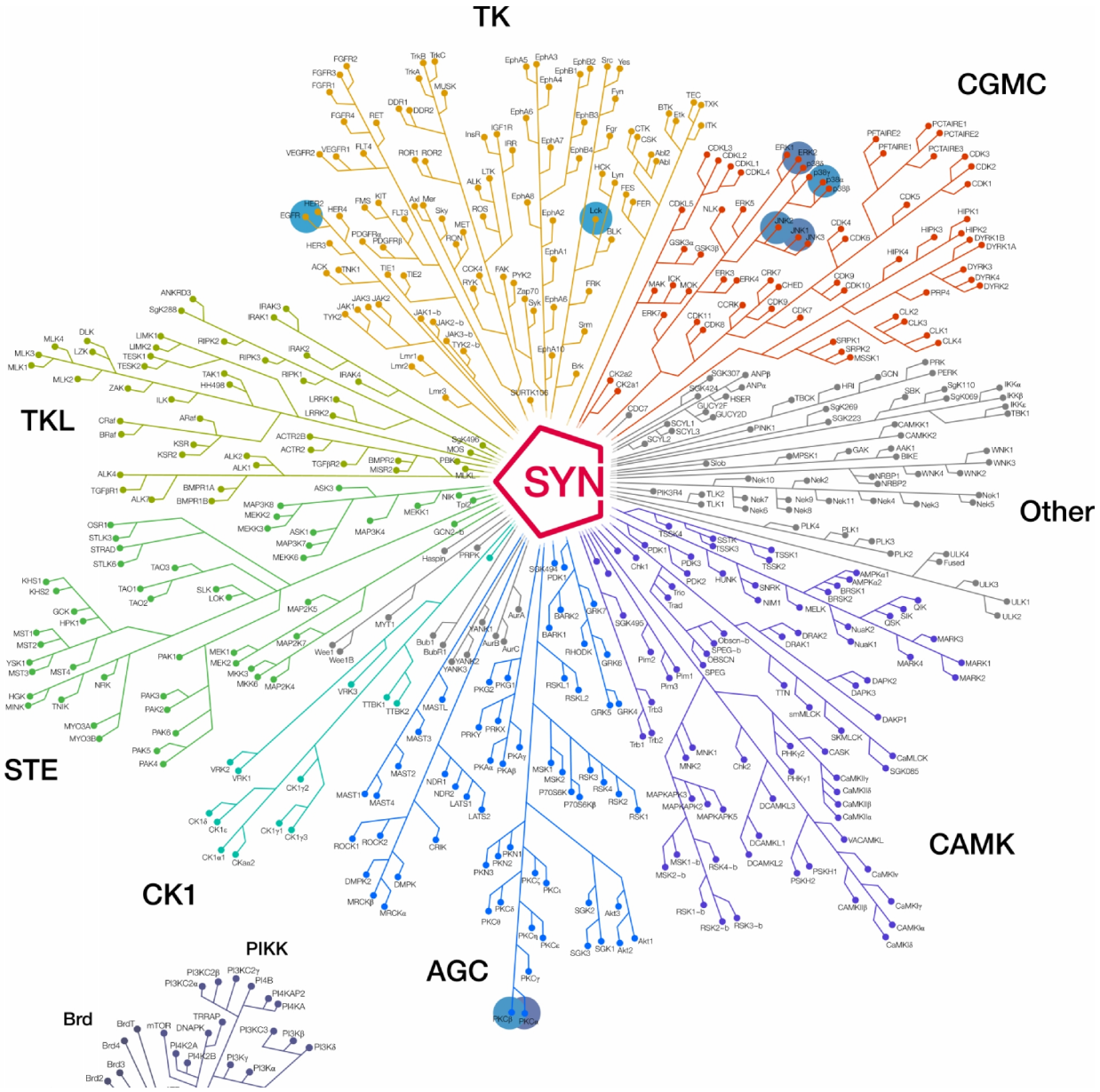
Description:

The p38 mitogen-activated protein kinase (MAPK) signaling pathway is activated by numerous inflammatory mediators and environmental stresses. SB-242235 is a potent and moderately selective p38 MAP kinase inhibitor that may be an effective therapy for cytokine-mediated diseases such as autoimmune or inflammatory diseases. SB-242235 exhibits good oral availability in preclinical studies and has micromolar or submicomolar in vivo IC 50 values. However it is clear from studies examining SB-242235 effects on metabolism, for instance in chondrocytes and human cartilage that SB-242235 effects can be pleiotropic between species and that care must be taken when studying the interactions of multi-target inhibitors such as SB-242235.

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)	0.3533	3.5339	7.0678	17.6695

References

1. Adams JL, Boehm JC, Gallagher TF, Kassis S, Webb EF, Hall R, Sorenson M, Garigipati R, Griswold DE, Lee JC. Pyrimidinylimidazole inhibitors of p38: cyclic N-1 imidazole substituents enhance p38 kinase inhibition and oral activity. Bioorg Med Chem Lett. 2001 Nov 5;11(21):2867-70.

2. Badger AM, Griswold DE, Kapadia R, Blake S, Swift BA, Hoffman SJ, Stroup GB, Webb E, Rieman DJ, Gowen M, Boehm JC, Adams JL, Lee JC. Disease-modifying activity of SB 242235, a selective inhibitor of p38 mitogen-activated protein kinase, in rat adjuvant-induced arthritis. Arthritis Rheum. 2000 Jan;43(1):175-83.

3. Ward KW, Proksch JW, Salyers KL, Azzarano LM, Morgan JA, Roethke TJ, McSurdy-Freed JE, Levy MA, Smith BR. SB-242235, a selective inhibitor of p38 mitogen-activated protein kinase. I: preclinical pharmacokinetics. Xenobiotica. 2002 Mar;32(3):221-33.

Ordering Information

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