

SB590885

SYN-1077

5-(2-(4-(2-(dimethylamino)ethoxy)phenyl)-5-(pyridin-4-yl)-1H-imidazol-4-yl)-2,3-dihydroinden-1-one oxime

CAS Registry No.: 405554-55-4

Smiles String:

CN(C)CCOc1ccc(cc1)c2[nH]c(c(n2)c3ccc\4c(c3)CC/C4=N\O)c5ccncc5

Molecular Weight: 453.54

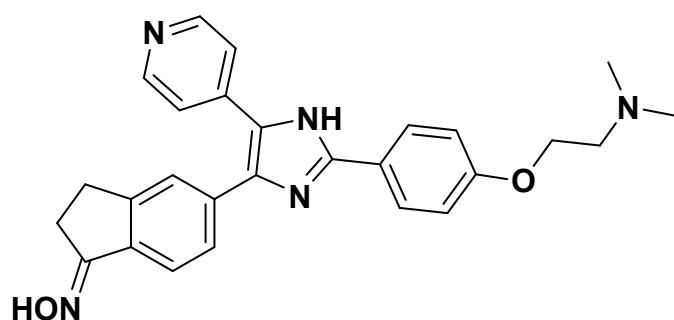
Molecular Formula: C₂₇H₂₇N₅O₂

Lot Number: Refer to vial

¹H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

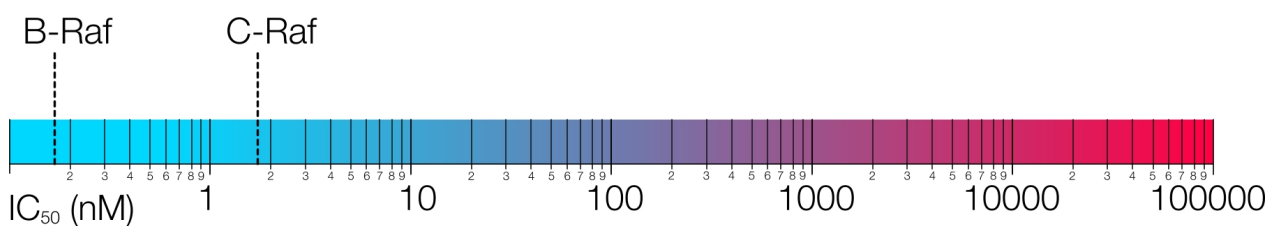
ES-MS: Available on request



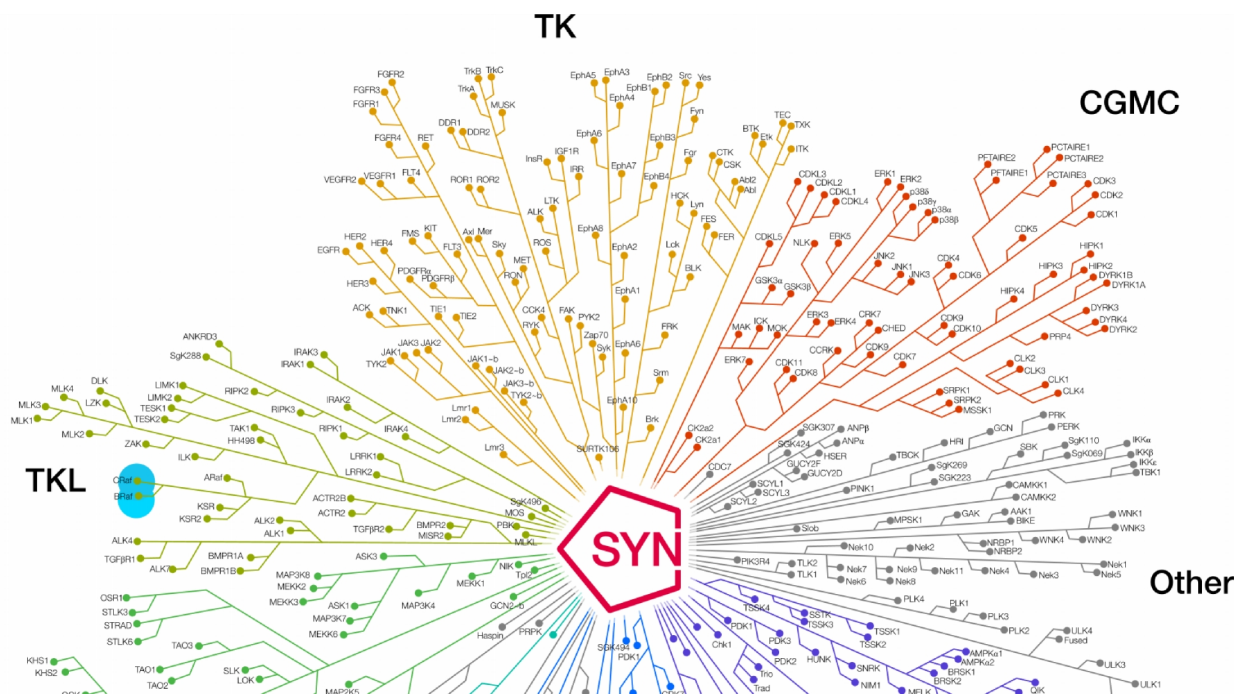
Description:

SB-590885 is a novel, potent and selective small molecule inhibitor of B-Raf kinase, with a K_i of 0.16 nM. It shows an 11-fold greater selectivity for B-Raf over c-Raf. It was used to address the dependence of MAPK signalling and tumor cell growth on B-Raf kinase activity.

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 5mg/mL, Ethanol 1mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.4535	4.5354	9.0708	22.6770

References

1. Barollo S, Bertazza L, Baldini E, Ulisse S, Cavedon E, Boscaro M, Pezzani R, Mian C. The combination of RAF265, SB590885, ZSTK474 on thyroid cancer cell lines deeply impact on proliferation and MAPK and PI3K/Akt signaling pathways. *Invest New Drugs*. 2014 Aug;32(4):626-35. doi: 10.1007/s10637-014-0108-3. Epub 2014 May 13.
2. King AJ, Patrick DR, Batorsky RS, Ho ML, Do HT, Zhang SY, Kumar R, Rusnak DW, Takle AK, Wilson DM, Hugger E, Wang L, Karreth F, Lougheed JC, Lee J, Chau D, Stout TJ, May EW, Rominger CM, Schaber MD, Luo L, Lakdawala AS, Adams JL, Contractor RG, Smalley KS, Herlyn M, Morrissey MM, Tuveson DA, Huang PS. Demonstration of a genetic therapeutic index for tumors expressing oncogenic BRAF by the kinase inhibitor SB-590885. *Cancer Res*. 2006 Dec 1;66(23):11100-5.

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)