



Data Sheet

Research Use Only

Compound Name

SB590885

Catalog Number

SM48

Alternative Names

SB 590885, SB-590885, (E)-5-(2-(4-(2-(dimethylamino)ethoxy)phenyl)-4-(pyridin-4-yl)-1H-imidazol-5-yl)-2,3-dihydroinden-1-one oxime

Activity

SB590885 is another selective small-molecule inhibitor of the B-Raf kinase. It has been used to overcome the dependence of MAPK signaling and tumor cell growth on BRAf kinase activity. The inhibition of MAP kinase is one of the vital ways to get rid of un-wanted tumor growth. SB590885 also act as an angiogenesis inhibitor and it helps in the research studies of different important kinase pathways.

Effect

In melanoma and colorectal cancer cell lines with B-Raf V600E mutation, an effective inhibition of cell proliferation was achieved by using SB590885 at concentrations that blocked ERK phosphorylation.

Purity

>98%

CAS

405554-55-4

Formula

$C_{27}H_{27}N_5O_2$

Molecular Weight

453.54

Solubility

DMSO

Stability

Stable at -20°C. Keep away from direct sunlight.

References

1. Takle, AK., et al. 2008. Bioorg Med Chem Lett. 18(15): 4373-4376. PMID: 18621524
2. Ahnstedt, H., et al. 2011. BMC Neuroscience. 12: 5. PMID: 21223556
3. Theunissen, T. W., et al. 2014. Cell Stem Cell. 15: 1-17. DOI: <http://dx.doi.org/10.1016/j.stem.2014.07.002>