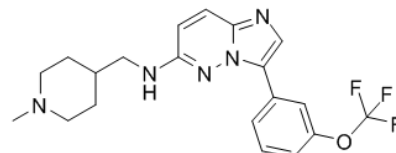


Product Name : SGI-1776
Cat. No. : PC-43464
CAS No. : 1025065-69-3
Molecular Formula : C₂₀H₂₂F₃N₅O
Molecular Weight : 405.42
Target : Pim
Solubility : 10 mM in DMSO



Biological Activity

SGI-1776 is a potent, selective, orally active **Pim kinase** inhibitor with IC₅₀ of 7, 363 and 69 nM for Pim1, Pim2 and Pim3, respectively.

SGI-1776 exhibits promising selectivity against a panel of >300 kinases, shows inhibitory activity against two other kinases: Flt-3 (IC₅₀=44 nM) and Haspin (IC₅₀=34 nM);

SGI-1776 reduces cell viability of androgen-independent prostate cancer cell lines with IC₅₀ of 2-4 μM, causes cell cycle arrest and caspase-dependent apoptosis in prostate cancer cells, marginally sensitizes prostate cancer cells to taxane-based therapeutics by inhibiting MDR1 activity and inducing apoptosis.

SGI-1776 shows efficacy in xenograft model bearing MV-4-11 tumors.

References

Chen LS, et al. *Blood*. 2009 Nov 5;114(19):4150-7.

Chen LS, et al. *Blood*. 2011 Jul 21;118(3):693-702.

Chang M, et al. *Mol Cancer Ther*. 2010 Sep;9(9):2478-87.

Mumenthaler SM, et al. *Mol Cancer Ther*. 2009 Oct;8(10):2882-93.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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