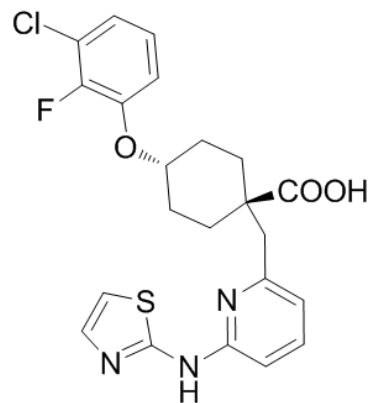


Product Name : MK-5108
Cat. No. : PC-43431
CAS No. : 1010085-13-8
Molecular Formula : C₂₂H₂₁ClFN₃O₃S
Molecular Weight : 461.94
Target : Aurora Kinase
Solubility : DMSO: 6.4 mg/mL (Need warming)



Biological Activity

MK-5108 (VX-689) is a potent, highly selective **Aurora-A** kinase inhibitor with IC₅₀ of 0.064 nM, displays robust selectivity against Aurora-B (220-fold) and Aurora-C (190-fold) in the biochemical assays.

MK-5108 (VX-689) also exhibits high selectivity for Aurora-A over a panel of 233 kinases, only one kinase (TrkA) with <100-fold selectivity.

MK-5108 (VX-689) inhibits the growth of multiple human cancer cell lines in vitro and in human cancer xenograft models.

MK-5108 (VX-689) MK-5108 significantly enhanced the efficacy of docetaxel without increasing its toxicity.

References

Shimomura T, et al. *Mol Cancer Ther.* 2010 Jan;9(1):157-66.

Kretzner L, et al. *Cancer Res.* 2011 Jun 1;71(11):3912-20.

Shan W, et al. *Clin Cancer Res.* 2012 Jun 15;18(12):3352-65.

Chefetz I, et al. *Cell Cycle.* 2011 Jul 1;10(13):2206-14.

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

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