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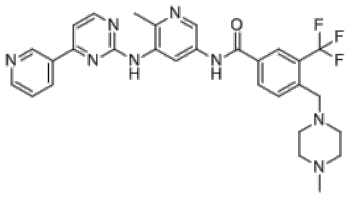
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Flumbatinib
Cat. No.	:	PC-38393
CAS No.	:	895519-90-1
Molecular Formula	:	$C_{29}H_{29}F_3N_8O$
Molecular Weight	:	562.601
Target	:	Bcr-Abl
Solubility	:	10 mM in DMSO



Biological Activity

Flumatinib (HH-GV678) is a potent **BCR-ABL/PDGFR/KIT** inhibitor, potently inhibits ABL, PDGFR-β and KIT kinase with IC50 of 1.2, 307.6 and 665.5 nM, respectively.
Flumatinib (HH-GV678) displays only weak inhibition of VEGFR2/3, SRC, FLT3, RET, EGFR, and HER2.
Flumatinib (HH-GV678) is a more potent inhibitor of BCR-ABL1 tyrosine kinase than imatinib (IC50=100.9 nM).
Flumatinib (HH-GV678) exhibited a selective inhibition pattern toward imatinib-resistant KIT mutants associated with GISTs, effectively overcame the drug resistance of certain KIT mutants with activation loop mutations (i.e., D820G, N822K, Y823D, and A829P).
Flumatinib (HH-GV678) had superior efficacy compared with imatinib or sunitinib against 32D cells with the secondary mutation Y823D.

References

Luo H, et al. ***Leukemia.*** 2010 Oct;24(10):1807-9.

Kuang Y, et al. ***Cancer Chemother Pharmacol.*** 2020 Sep;86(3):339-346.

Zhang L, et al. ***Clin Cancer Res.*** 2021 Jan 1;27(1):70-77.

Zhao J, et al. ***Cancer Sci.*** 2014 Jan;105(1):117-25.

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

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