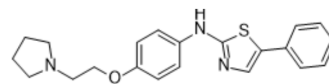


Flt-3 Inhibitor III

Cat. No.:	HY-112475
CAS No.:	852045-46-6
Molecular Formula:	C ₂₁ H ₂₃ N ₃ OS
Molecular Weight:	365.49
Target:	FLT3; Tie
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Flt-3 Inhibitor III is a potent and selective FLT3 kinase inhibitor with an IC_{50} of 50 nM. Flt-3 Inhibitor III shows less active against other kinases. Flt-3 Inhibitor III has anticancer effects ^[1] .
IC₅₀ & Target	Tie2 8.0 μ M (IC ₅₀)
In Vitro	Flt-3 Inhibitor III (compound 4) also inhibits c-Kit, KDR, c-Abl, CDK1, c-Src and Tie-2 with IC ₅₀ values of 0.26 μ M, 0.91 μ M, 1.2 μ M, 2.1 μ M, 2.8 μ M, and 8.0 μ M, respectively ^[1] . Flt-3 Inhibitor III (compound 4) blocks the proliferation of BaF3-ITD, BaF3-D835/Y, and MV4:11 cells, with IC ₅₀ values of 0.24 μ M, 0.76 μ M, and 0.052 μ M, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pascal Furet, et al. Aromatic interactions with phenylalanine 691 and cysteine 828: a concept for FMS-like tyrosine kinase-3 inhibition. Application to the discovery of a new class of potential antileukemia agents. J Med Chem. 2006 Jul 27;49(15):4451-4.

Caution: Product has not been fully validated for medical applications. For research use only.

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