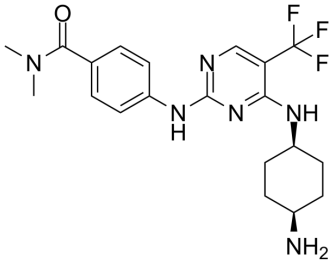
FLT3-IN-11

Cat. No.:	HY-143894
CAS No.:	2499966-50-4
Molecular Formula:	$C_{20}H_{25}F_3N_6O$
Molecular Weight:	422.45
Target:	FLT3
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FLT3-IN-11 (compound 30) is a potent, selective and orally active FLT3 kinase inhibitor with IC_{50}s of 7.22 nM and 4.95 nM for wild-type FLT3 and FLT3-D835Y, respectively. FLT3-IN-11 high selectivity for FLT3 over c-KIT (>1000-fold). FLT3-IN-11has excellent anti-acute myeloid leukemia (AML) activity (MV4-11 cells, IC_{50} of 3.2 nM)[1].
IC_{50} & Target	IC50: 7.22 nM (wild-type FLT3) and 4.95 nM (FLT3-D835Y)[1]
In Vitro	FLT3-IN-11 (compound 30) efficiently inhibits the growth of multiple mutant BaF3 cells expressing FLT3-ITD, FLT3-D835V/F, FLT3-F691L, FLT3-ITD-F691L, and FLT3-ITD-D835Y[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Oral administration of FLT3-IN-11 (compound 30) at 6 mg/kg/d could significantly suppress tumor growth in the MV4-11 cell-inoculated xenograft model, exhibiting tumor growth inhibitory rates of 83.5%[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lexian Tong, et al. Identification of 2-Aminopyrimidine Derivatives as FLT3 Kinase Inhibitors with High Selectivity over c-KIT. J Med Chem. 2022 Feb 24;65(4):3229-3248.

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