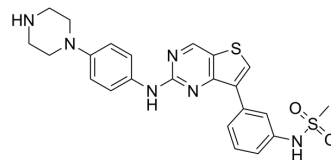


## FLT3-IN-17

Cat. No.:	HY-148070
CAS No.:	2758999-62-9
Molecular Formula:	C <sub>23</sub> H <sub>24</sub> N <sub>6</sub> O <sub>2</sub> S <sub>2</sub>
Molecular Weight:	480.61
Target:	FLT3; FAK; Cytochrome P450
Pathway:	Protein Tyrosine Kinase/RTK; Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 7.5 mg/mL (15.61 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.0807 mL	10.4034 mL	20.8069 mL
	5 mM	0.4161 mL	2.0807 mL	4.1614 mL
	10 mM	0.2081 mL	1.0403 mL	2.0807 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

FLT3-IN-17 inhibits CYPs and FLT3 mutants activity (IC<sub>50</sub>s: <0.5 nM for D835Y). FLT3-IN-17 is also a FAK inhibitor, with an IC<sub>50</sub> value of 12 nM. FLT3 ligand-2 can be used in the research of cancers<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 12 nM (FAK), <0.5 nM (D835Y)<sup>[2]</sup>.

#### In Vitro

FLT3-IN-17 (compound 25, 72 h) inhibits cell growth in HCT-116, MDA-MB-231, A375 cells<sup>[1]</sup>.  
 FLT3-IN-17 (10 μM) inhibits cytochrome P450s (CYPs) with inhibition rates >55%<sup>[1]</sup>.  
 FLT3-IN-17 inhibits FLT3 mutants activity (IC<sub>50</sub>s: <0.5 nM for D835Y, 1.6-183 nM for Ba/F3)<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.  
 Cell Proliferation Assay<sup>[1]</sup>

Cell Line:	HCT-116, MDA-MB-231, A375 cells
Concentration:	0-1 μM approximately
Incubation Time:	72 h

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Result:	Inhibited cell growth with IC <sub>50</sub> values of 0.25, 0.46, 0.49 μM respectively.
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## REFERENCES

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[1]. Hanna Cho, et al. Identification of Thieno[3,2- d]pyrimidine Derivatives as Dual Inhibitors of Focal Adhesion Kinase and FMS-like Tyrosine Kinase 3. J Med Chem. 2021 Aug 26;64(16):11934-11957.

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

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