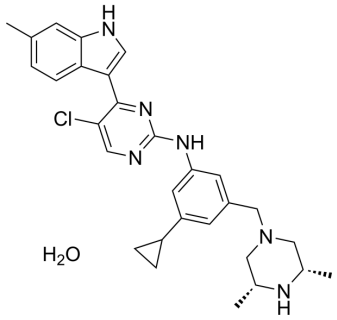
Tuspetinib hydrate

Cat. No.:	HY-145015A
CAS No.:	2758339-04-5
Molecular Formula:	$C_{29}H_{35}ClN_6O$
Molecular Weight:	519.08
Target:	FLT3; Apoptosis
Pathway:	Protein Tyrosine Kinase/RTK; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tuspetinib (HM43239) hydrate is an orally active and selective FLT3 inhibitor with IC_{50}s of 1.1 nM, 1.8 nM and 1.0 nM for FLT3 WT, FLT3 internal tandem duplication (ITD) and FLT3 D835Y kinases, respectively. Tuspetinib hydrate inhibits the kinase activity of FLT3 as a reversible type I inhibitor and modulates p-STAT5, p-ERK, SYK, JAK1/2, and TAK1. Tuspetinib hydrate inhibits the proliferation and induces the apoptosis of leukemic cells[1][2][3].
IC_{50} & Target	IC50: 1.1 nM (FLT3 WT); 1.8 nM (FLT3 ITD); 1.0 nM (FLT3 D835Y)[1].

REFERENCES

[1]. Miyoung Lee, et.al. Abstract 804: Antitumor activity of the potent and novel FLT3 inhibitor HM43239 in acute myeloid leukemia. Cancer Res July 1 2018 (78) (13 Supplement) 804.

[2]. Naval G. Daver, et.al. HM43239, a Novel Potent Small Molecule FLT3 Inhibitor, in Acute Myeloid Leukemia (AML) with FMS-like Tyrosine Kinase 3 (FLT3) Mutations: Phase 1 /2 Study. Blood 2019; 134 (Supplement_1): 1331.

[3]. JiSook Kim, et.al. Abstract 1293: HM43239, a novel FLT3 inhibitor in overcoming resistance for acute myeloid leukemia. Cancer Res July 1 2019 (79) (13 Supplement) 1293.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA