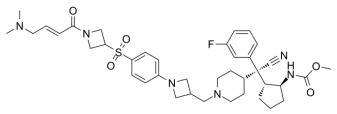
M-525

Cat. No.:	HY-124069
CAS No.:	2173582-08-4
Molecular Formula:	$C_{39}H_{51}FN_6O_5S$
Molecular Weight:	734.92
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	M-525 is a first-in-class, highly potent, irreversible and covalent menin-MLL protein-protein interaction inhibitor. M-525 binds to menin with an IC_{50} of 3 nM and achieves low nanomolar potencies in cell growth inhibition and in suppression of MLL regulated gene expression in MLL leukemia cells. Anti-leukemia activity[1].
In Vitro	M-525 achieves an IC_{50} of 3 nM in the MV4;11 cell line and has an IC_{50} of 2 μM in the HL-60 cell line. M-525 (3-300 nM; 24 h) is potent and effective in suppressing the expression of MEIS1 and HOX genes in MV4;11 cells carrying the MLL-AF4 fusion and in MOLM-13 cells carrying the MLL-AF9 fusion. It demonstrates high cellular specificity over non-MLL leukemia cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Xu S, et al. Design of the First-in-Class, Highly Potent Irreversible Inhibitor Targeting the Menin-MLL Protein-Protein Interaction. Angew Chem Int Ed Engl. 2018 Feb 5;57(6):1601-1605.

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