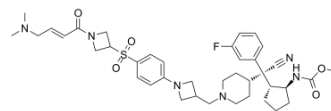


M-525

Cat. No.:	HY-124069
CAS No.:	2173582-08-4
Molecular Formula:	C ₃₉ H ₅₁ FN ₆ O ₅ S
Molecular Weight:	734.92
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the COA.



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 **IC₅₀** 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 **IC₅₀** of 3 nM in the MV4;11 cell line and has an **IC₅₀** 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].

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.

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

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