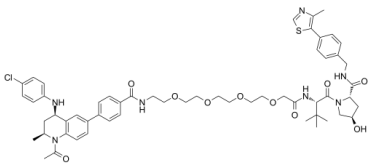
Data Sheet

Product Name:	MZP-55
Cat. No.:	CS-0045308
CAS No.:	2010159-48-3
Molecular Formula:	C57H70ClN7O10S
Molecular Weight:	1080.72
Target:	Epigenetic Reader Domain; PROTAC
Pathway:	Epigenetics; PROTAC
Solubility:	DMSO : 50 mg/mL (46.27 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

MZP-55 is a selective degrader of **BRD3/4** based on **PROTAC** technology, with a **K_d** of 8 nM for $Brd4^{BD2}$. IC50 & Target: Kd: 8 nM ($Brd4^{BD2}$)[1] **In Vitro:** MZP-55 is a selective degrader of BRD3/4 based on **PROTAC** technology, with a K_d of 8 nM for $Brd4^{BD2}$. MZP-55 binds to VHL-EloC-EloB protein (VCB) with a K_d of 105 ± 24 nM. MZP-55 shows an inhibitory activity against MV4;11 and HL60 cells, with pEC_{50}s of 7.31 ± 0.03 and 6.57 ± 0.02, respectively[1].

PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay: MZP-55 is dissolved in DMSO, and then diluted before use[1].[1]**MV4;11 or HL60 cells** are incubated with **MZP-55** at the desired concentration for 48 h on a clear-bottom 384-well plate. Cells are kept in RPMI medium supplemented with 10% FBS, l-glutamine, penicillin, and streptomycin. Initial cell density is **3 × 10^5 per mL**. Cells are treated with various concentrations of **MZP-55 or 0.05% DMSO**. After treatment, cell viability is measured with cell viability assay kit. Signal is recorded. Data are analyzed with Graphpad Prism software to obtain EC_{50} values of each MZP-55[1].

References:

[1]. Chan KH, et al. Impact of Target Warhead and Linkage Vector on Inducing Protein Degradation: Comparison of Bromodomain and Extra-Terminal (BET) Degraders Derived from Triazolodiazepine (JQ1) and Tetrahydroquinoline (I-BET726) BET Inhibitor Scaffolds. J Med Chem. 2018 Jan 25;61(2):504-513.

CAIndexNames:

MZP-55

SMILES:

CC(N=CS1)=C1C2=CC=C(CNC([C@@H]3C[C@@H](O)CN3C([C@H](C(C)(C)C)NC(COCCOCCOCCOCCNC(C(C=C4)=CC=C4C5=CC6=C(C=C5)N(C(C)=O)[C@@H](C)C[C@H]6NC7=CC=C(Cl)C=C7)=O)=O)=O)=O)C=C2

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