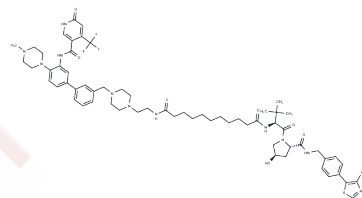


MS33

## Chemical Properties

CAS No. :	2407449-11-8
Formula:	C <sub>64</sub> H <sub>84</sub> F <sub>3</sub> N <sub>11</sub> O <sub>7</sub> S
Molecular Weight:	1208.5
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	MS33 is a highly effective degrader of the WDR5 protein, exhibiting Kd values of 870 nM and 120 nM for VCB and WDR5, respectively. It induces degradation of WDR5 through an E3 ligase VHL-mediated and proteasome-dependent mechanism. MS33 holds promise for furthering research in the field of acute myeloid leukemia.
Targets(IC50)	Others,Histone Methyltransferase,PROTACs
In vitro	MS33, at concentrations ranging from 0.05 to 5 μM over an 18-hour period, triggers a concentration-dependent degradation of WDR5 in MV4;11 cells[1]. Through Western Blot Analysis, it was established that the degradation of WDR5 by MS33 in MV4;11 cells is both concentration- and time-dependent across various concentrations (0.05, 0.1, 0.5, 1, 5 μM) and incubation times (1, 2, 4, 8, 16, 24 hours). This analysis revealed that MS33 has a DC50 of 260 nM and achieves a maximum degradation efficiency of 71%.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8275 mL	4.1374 mL	8.2747 mL
5 mM	0.1655 mL	0.8275 mL	1.6549 mL
10 mM	0.0827 mL	0.4137 mL	0.8275 mL
50 mM	0.0165 mL	0.0827 mL	0.1655 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yu X, et, al. A selective WDR5 degrader inhibits acute myeloid leukemia in patient-derived mouse models. Sci Transl Med. 2021 Sep 29;13(613):eabj1578.

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