## MS159

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-151101 3031353-59-7 $C_{43}H_{40}N_8O_{10}$ 828.83 PROTACs PROTAC 4°C, sealed storage, away from moisture and light * In solvent : 90°C 6 months: 20°C 1 month (coaled storage away from moisture)	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.2065 mL	6.0326 mL	12.0652 mL
		5 mM	0.2413 mL	1.2065 mL	2.4130 mL
		10 mM	0.1207 mL	0.6033 mL	1.2065 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		

<b>BIOLOGICAL ACT</b>	
DIOLOGICALACI	
Description	MS159 is a potent nuclear receptor binding SET structural domain protein 2 (NSD2) PROTAC degrader. MS159 inhibits the growth of tumour cells. MS159 is a useful chemical tool for exploring the role of NSD2 in health and disease <sup>[1]</sup> .
In Vitro	<ul> <li>MS159 (0.5-10 µM, 48 h) can induce the degradation of NSD2 protein in a time- and dose-dependent manner while the induced NSD2 degradation is reversible in 293FT cells<sup>[1]</sup>.</li> <li>MS159 (2.5 µM, 72 h) can effectively degrade NSD2 as well as IKZF1 and IKZF3 in multiple myeloma cell lines KMS11 and H929 while the degradation of IKZF1/3 is mediated through a ubiquitin-proteasome system (UPS-) and cereblon (CRBN-) dependent mechanism<sup>[1]</sup>.</li> <li>MS159 (2.5 µM, 8 days) can effectively inhibit the growth of KMS11 and H929 multiple myeloma cells through induced NSD2 degradation<sup>[1]</sup>.</li> <li>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</li> <li>Western Blot Analysis<sup>[1]</sup></li> </ul>



Cell Line:	293FT cells
Concentration:	0.5-10 μM
Incubation Time:	0-72 hours
Result:	Resulted in binding affinity for the NSD2-PWWP1 structural domain with a K <sub>d</sub> value of 1.1 $\mu$ M, and induced degradation of NSD2 with the DC <sub>50</sub> value of 5.2 $\mu$ M after 48 hours.

## REFERENCES

[1]. Fanye Meng, et al. Discovery of a First-in-Class Degrader for Nuclear Receptor Binding SET Domain Protein 2 (NSD2) and Ikaros/Aiolos. J Med Chem. 2022 Aug 11;65(15):10611-10625.

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

 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