

## SNIPER(BRD)-1

Cat. No.:	HY-111875
CAS No.:	2095244-54-3
Molecular Formula:	C <sub>53</sub> H <sub>66</sub> ClN <sub>9</sub> O <sub>8</sub> S <sub>2</sub>
Molecular Weight:	1056.73
Target:	SNIPER; Epigenetic Reader Domain
Pathway:	PROTAC; Epigenetics
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (94.63 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	
				5 mg	
				10 mg	
				10 mg	
			1 mg	5 mg	10 mg
	1 mM		0.9463 mL	4.7316 mL	9.4632 mL
	5 mM		0.1893 mL	0.9463 mL	1.8926 mL
	10 mM		0.0946 mL	0.4732 mL	0.9463 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.37 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.37 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	SNIPER(BRD)-1, consists of an IAP antagonist LCL-161 derivative and a BET inhibitor, (+)-JQ-1, connected by a linker. SNIPER(BRD)-1 induces the degradation of BRD4 via the ubiquitin-proteasome pathway. SNIPER(BRD)-1 also degrades cIAP1, cIAP2 and XIAP with IC <sub>50</sub> s of 6.8 nM, 17 nM, and 49nM, respectively <sup>[1]</sup> .			
IC <sub>50</sub> & Target	BRD4	cIAP1 6.8 nM (IC <sub>50</sub> )	cIAP2 17 nM (IC <sub>50</sub> )	XIAP 49 nM (Ki)
	SNIPER			

### REFERENCES

---

[1]. Ohoka N, et al. Different Degradation Mechanisms of Inhibitor of Apoptosis Proteins (IAPs) by the Specific and Nongenetic IAP-Dependent Protein Eraser (SNIPER). Chem Pharm Bull (Tokyo). 2019 Mar 1;67(3):203-209.

---

**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](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA