# LP99

Cat. No.:	HY-19553				
CAS No.:	1808951-93-0				
Molecular Formula:	C <sub>26</sub> H <sub>30</sub> ClN <sub>3</sub> O <sub>4</sub> S				
Molecular Weight:	516.05				
Target:	Epigenetic Reader Domain				
Pathway:	Epigenetics				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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## SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	1.9378 mL	9.6890 mL	19.3780 mL	
		5 mM	0.3876 mL	1.9378 mL	3.8756 mL	
		10 mM	0.1938 mL	0.9689 mL	1.9378 mL	
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.				
n Vivo	1. Add each solvent Solubility: ≥ 2.5 m	) >> 45% saline				
	t one by one: 10% DMSO >> 90% corn oil ng/mL (4.84 mM); Clear solution					

BIOLOGICAL ACTIVITY				
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Description	LP99, an epigenetic probe, is a potent and selective inhibitor of the BRD7 and BRD9 bromodomains with a K <sub>d</sub> of 99 nM against BRD9. LP99 disrupts the binding of BRD7 and BRD9 to chromatin in cells <sup>[1]</sup> .			
IC <sub>50</sub> & Target	Kd: 99 nM (BRD9) <sup>[1]</sup>			
In Vitro	LP99 disrupts BRD9 interactions with chromatin at a concentration of 0.8 μM. BRD7- and BRD9-NanoLuc luciferase fusion proteins and fluorescently labelled histone H3.3- and H4-HaloTag fusions were expressed in HEK293 cells. The addition of LP99 decreased BRET for both BRD7 and BRD9 in both the H3.3 and H4 systems in a dose-dependent manner, with cellular IC <sub>50</sub> values in the low micromolar range for both histone. Cytotoxicity tests in U2OS cells for 24 and 72 hours shows the inhibitor to be non-toxic at concentrations of <33 μM. LP99 inhibits IL-6 secretion from THP-1 cells in a dose-dependent			

O Å S\_NH Ó

CI

### manner<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### REFERENCES

[1]. Clark PG, et al. LP99: Discovery and Synthesis of the First Selective BRD7/9 Bromodomain Inhibitor. Angew Chem Int Ed Engl. 2015 May 18;54(21):6217-21.

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

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