

LP99

## Chemical Properties

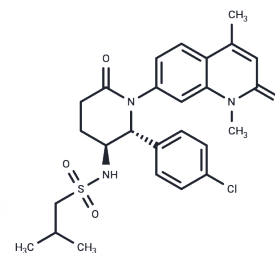
CAS No. : 1808951-93-0

Formula: C<sub>26</sub>H<sub>30</sub>ClN<sub>3</sub>O<sub>4</sub>S

Molecular Weight: 516.05

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	LP99 is an epigenetic probe. LP99 disrupts the binding of BRD7 and BRD9 to chromatin in cells. LP99 is an effective and selective inhibitor of the BRD7 and BRD9 bromodomains (K <sub>d</sub> : 99 nM against BRD9).
Targets(IC <sub>50</sub> )	Epigenetic Reader Domain
In vitro	LP99 (0.8 μM) disrupts BRD9 interactions with chromatin. 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. LP99 inhibits IL-6 secretion from THP-1 cells in a dose-dependent manner. Cytotoxicity tests in U2OS cells for 24 and 72 hours display the inhibitor to be non-toxic at concentrations of <33 μM .

## Solubility Information

Solubility	DMSO: 22.5 mg/mL (43.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.88 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.9378 mL	9.689 mL	19.378 mL
5 mM	0.3876 mL	1.9378 mL	3.8756 mL
10 mM	0.1938 mL	0.9689 mL	1.9378 mL
50 mM	0.0388 mL	0.1938 mL	0.3876 mL

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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

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.

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