

Product Name: LP 99

Catalog No.: 5496

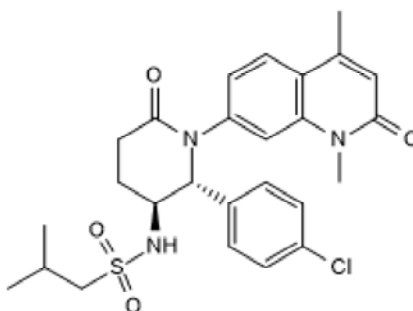
Batch No.: 1

CAS Number: 1808951-93-0

IUPAC Name: *N*-[(2*R*,3*S*)-2-(4-Chlorophenyl)-1-(1,2-dihydro-1,4-dimethyl-2-oxo-7-quinoliny)-6-oxo-3-piperidiny]-2-methyl-1-propanesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₀ClN₃O₄S
Batch Molecular Weight: 516.05
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.21 (Dichloromethane:Methanol [95:5])
HPLC: Shows 98.6% purity
Chiral HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.51	5.86	8.14
Found	60.11	5.84	8.23

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

LP 99 is a selective BRD7 and BRD9 inhibitor (K_d values are 99 and 909 nM, respectively) that exhibits selectivity for BRD7/9 over a panel of 48 bromodomains (at 10 μ M). LP 99 inhibits interactions with histones H3.3 and H4 at low micromolar concentrations, and decreases the level of IL-6 secreted from LPS-stimulated THP-1 cells, in vitro. A negative control for LP 99, ent-LP 99 (Cat.No. 5497), is also available.

Physical and Chemical Properties:

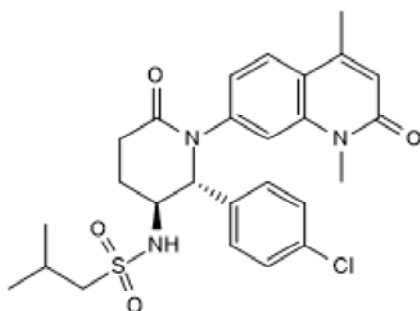
Batch Molecular Formula: $C_{26}H_{30}ClN_3O_4S$

Batch Molecular Weight: 516.05

Physical Appearance: Off White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the LP 99 probe summary on the SGC website.

References:

Clark *et al* (2015) LP99: discovery and synthesis of the first selective BRD7/9 bromodomain inhibitor. *Angew.Chem.Int.Ed.Engl.* **54** 6217. PMID: 25864491.

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