

Product Data Sheet

Product Name: LP99
Cat. No.: GC18731

Chemical Properties

Cas. No. 1808951-93-0

Chemical Name N-[(2R,3S)-2-(4-chlorophenyl)-1-(1,2-dihydro-1,4-dimethyl-2-oxo-7-quinolinyl)-6-oxo-3-piperidinyl]-2-methyl-1-propanesulfonamide

SMILES CC(C)S(=O)(=O)N[C@@H]1CC[C@H](N2C(=O)CC[C@H](C2)c3ccc(Cl)cc3)C(=O)N1C4=CC=CC=C4

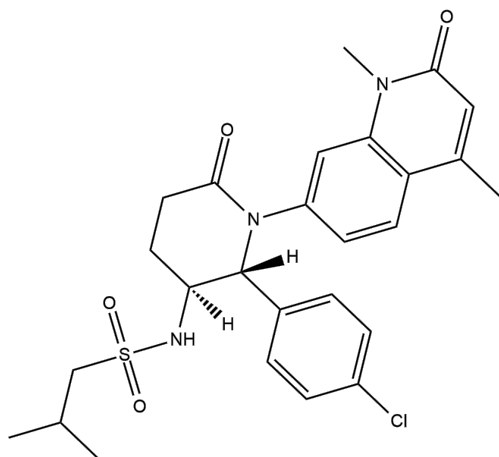
Formula $C_{26}H_{30}ClN_3O_4S$ M.Wt 516.1

Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, Ethanol: 20 mg/ml, Ethanol: PBS (pH 7.2) (1:9): 0.1 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

LP99 is a potent inhibitor of the bromodomain containing proteins BRD7 and BRD9 that binds with

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

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K_d values of 99 and 909 nM, respectively, as determined by isothermal titration calorimetry. It is selective for BRD7/9 over a panel of 48 BRDs at concentrations up to 10 μ M determined using differential scanning fluorimetry. It inhibits BRD7 interactions with histones H3.3 and H4 with IC₅₀ values of 3.7 and 3.3 μ M, respectively, in a bioluminescence resonance energy transfer (BRET) assay in HEK293 cells. Similarly, it inhibits BRD9 from interacting with H3.3 and H4 with IC₅₀ values of 5.1 and 6.2 μ M, respectively. It also decreases the level of IL-6 secreted from LPS-stimulated THP-1 cells. See the Structural Genomics Consortium (SGC) website for more information.

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