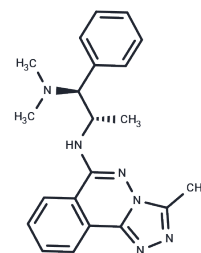


## L-Moses

## Chemical Properties

CAS No. :	2079885-05-3
Formula:	C <sub>21</sub> H <sub>24</sub> N <sub>6</sub>
Molecular Weight:	360.46
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	L-45 is the first potent and cell-active bromodomain (Brd) inhibitor of p300/CBP-associated factor (PCAF) (Kd: 126±15 nM).
Targets(IC50)	Others,Epigenetic Reader Domain
In vitro	L-45 binds in the acetylated lysines (KAc) -binding pocket of PfGCN (blue ribbon and sticks) and makes H-bonds (dotted lines) through the triazole to N1436 and the first of a network of four water molecules (red spheres). A structure using highly homologous (64% identity) Brd from Plasmodium falciparum, PfGCN5, of which L-45 is also a potent ligand (isothermal titration calorimetry (ITC) KD 280 nM), is successfully obtained (PDB: 5TPX). L-45 disrupts PCAF-Brd histone H3.3 interaction in cells using a nanoBRET assay, and a co-crystal structure of L-45 with the homologous Brd PfGCN5 from Plasmodium falciparum rationalizes the high selectivity for PCAF and GCN5 bromodomains [1].
In vivo	In human and mouse liver microsomes, L-45 displays no observable cytotoxicity in peripheral blood mononuclear cells (PBMC), good cell-permeability, and metabolic stability. It also supports its potential for in vivo use[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7742 mL	13.8712 mL	27.7423 mL
5 mM	0.5548 mL	2.7742 mL	5.5485 mL
10 mM	0.2774 mL	1.3871 mL	2.7742 mL
50 mM	0.0555 mL	0.2774 mL	0.5548 mL

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

Moustakim M, et al. Discovery of a PCAF Bromodomain Chemical Probe. Angew Chem Int Ed Engl. 2017 Jan 16;56 (3):827-831.

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