

Product Name: L Moses dihydrochloride

Catalog No.: 6251

Batch No.: 1

IUPAC Name: (1S, 2S)-N¹,N¹-Dimethyl-N²-(3-methyl-1,2,4-triazolo[3,4-a]phthalazin-6-yl)-1-phenylpropane-1,2-diamine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₄N₆·2HCl·1¼H₂O

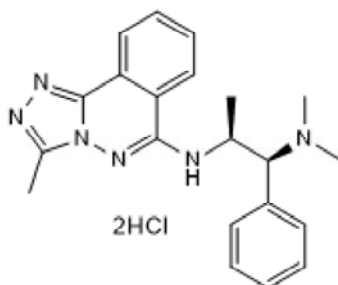
Batch Molecular Weight: 455.9

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.41 (5% 7M methanolic ammonia/DCM)

HPLC: Shows 99.5% purity

Chiral HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.33	6.3	18.43
Found	55.51	6.68	18.64

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

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Description:

L Moses dihydrochloride is a high affinity and selective cell-permeable p300/CBP-associated factor (PCAF) inhibitor ($K_i = 47$ nM), which exhibits no significant activity against a panel of 48 other bromodomains except GCN5 ($K_d = 600$ nM). L Moses exhibits >4500-fold selectivity for PCAF over BRD4. The compound inhibits Tunicamycin (Cat. No. 3516) -induced neuronal cell death by reversing the transcriptional changes associated with Tunicamycin treatment. L Moses exhibits metabolic stability in mouse and human liver microsomes and no observable cytotoxicity in peripheral blood mononuclear cells (PBMC). Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

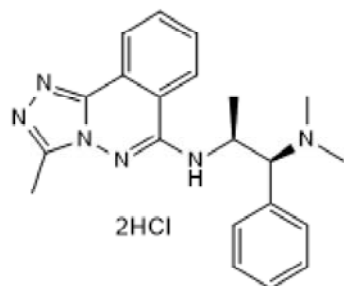
Batch Molecular Formula: C₂₁H₂₄N₆·2HCl·1¼H₂O

Batch Molecular Weight: 455.9

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Pavlou et al (2023) CRISPR-Cas9 genetic screen leads to the discovery of L-Moses, a KAT2B inhibitor that attenuates Tunicamycin-mediated neuronal cell death. *Sci Rep* **13** 3934. PMID: 36894612.

Moustakim et al (2017) Discovery of a PCAF bromodomain chemical probe. *Angew.Chem.Int.Ed.* **56** 827. PMID: 27966810.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

DMSO 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°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°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

This compound is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the L-Moses probe summary on the SGC website.

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