

**Product Name:** L Moses dihydrochloride

**Catalog No.:** 6251

**Batch No.:** 1

CAS Number: 2922480-38-2

IUPAC Name: (1*S*, 2*S*)-*N*<sup>1</sup>,*N*<sup>1</sup>-Dimethyl-*N*<sup>2</sup>-(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:** C<sub>21</sub>H<sub>24</sub>N<sub>6</sub>·2HCl·1¼H<sub>2</sub>O

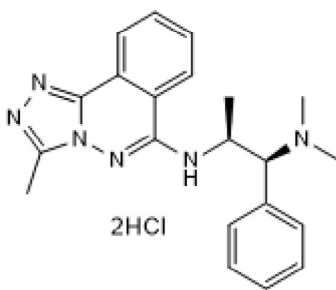
**Batch Molecular Weight:** 455.9

**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<sub>f</sub> = 0.41 (5% 7M methanolic ammonia/DCM)

**HPLC:** Shows 99.5% purity

**Chiral HPLC:** Shows 100% purity

**<sup>1</sup>H 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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956

**Product Name:** L Moses dihydrochloride

**Catalog No.:** 6251

1

CAS Number: 2922480-38-2

IUPAC Name: (1S, 2S)-N<sup>1</sup>,N<sup>1</sup>-Dimethyl-N<sup>2</sup>-(3-methyl-1,2,4-triazolo[3,4-a]phthalazin-6-yl)-1-phenylpropane-1,2-diamine dihydrochloride

**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:**

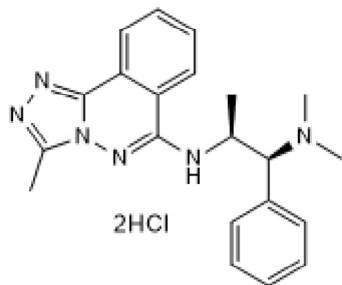
Batch Molecular Formula: C<sub>21</sub>H<sub>24</sub>N<sub>6</sub>·2HCl·1¼H<sub>2</sub>O

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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956