

Product data sheet



MedKoo Cat#: 558372 Name: L-742001 Hydrochloride CAS: 174605-64-2 Chemical Formula: C ₂₃ H ₂₅ Cl ₂ NO ₄ Exact Mass: 449.1161 Molecular Weight: 450.356		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

L-742001 Hydrochloride is an inhibitor of RNA polymerase.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.22 mL	11.10 mL	22.20 mL
5 mM	0.44 mL	2.22 mL	4.44 mL
10 mM	0.22 mL	1.11 mL	2.22 mL
50 mM	0.04 mL	0.22 mL	0.44 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

- Chen JK, Hsiao C, Wu JS, Lin SY, Wang CY. Characterization of the endonuclease activity of the replication-associated protein of beak and feather disease virus. Arch Virol. 2019 Aug;164(8):2091-2106. doi: 10.1007/s00705-019-04292-z. Epub 2019 May 29. PMID: 31139938.
- Yan Z, Zhang L, Fu H, Wang Z, Lin J. Design of the influenza virus inhibitors targeting the PA endonuclease using 3D-QSAR modeling, side-chain hopping, and docking. Bioorg Med Chem Lett. 2014 Jan 15;24(2):539-47. doi: 10.1016/j.bmcl.2013.12.026. Epub 2013 Dec 12. PMID: 24365156.

In vivo study

TBD

7. Bioactivity

Biological target:

L-742001 Hydrochloride is an inhibitor of RNA polymerase.

In vitro activity

The endonuclease activity was not affected by ATPase inhibitors, with the exception of N-ethylmaleimide (NEM), or by GTPase inhibitors, but it was decreased by treatment with the endonuclease inhibitor L-742001.

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Reference: Arch Virol. 2019 Aug;164(8):2091-2106. <https://pubmed.ncbi.nlm.nih.gov/31139938/>

In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.