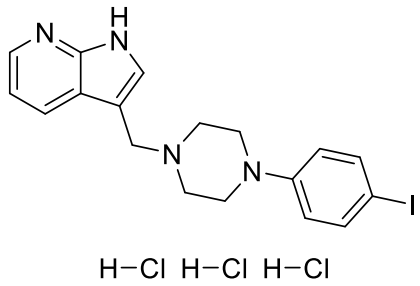
Product data sheet

MedKoo Cat#: 532083 Name: L-750,667 TriHydrochloride CAS: 1021868-80-3 Chemical Formula: $C_{18}H_{22}Cl_3IN_4$ Molecular Weight: 527.6565	
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-750,667 TriHydrochloride is a selective D4 dopamine receptor antagonist.

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	1.90 mL	9.48 mL	18.95 mL
5 mM	0.38 mL	1.90 mL	3.79 mL
10 mM	0.19 mL	0.95 mL	1.90 mL
50 mM	0.04 mL	0.19 mL	0.38 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

1. Cummings DF, Ericksen SS, Schetz JA. Three amino acids in the D2 dopamine receptor regulate selective ligand function and affinity. J Neurochem. 2009 Jul;110(1):45-57. doi: 10.1111/j.1471-4159.2009.06103.x. Epub 2009 Apr 16. PMID: 19486266; PMCID: PMC4896224.
2. Nakano K, Higashi T, Hashimoto K, Takagi R, Tanaka Y, Matsushita S. Antagonizing dopamine D1-like receptor inhibits Th17 cell differentiation: preventive and therapeutic effects on experimental autoimmune encephalomyelitis. Biochem Biophys Res Commun. 2008 Aug 22;373(2):286-91. doi: 10.1016/j.bbrc.2008.06.012. Epub 2008 Jun 17. PMID: 18558081.

In vivo study

TBD

7. Bioactivity
Biological target:

L-750,667 TriHydrochloride is a selective D4 dopamine receptor antagonist.

In vitro activity

In contrast to RBI-257 which is an antagonist at all receptors, L-750,667 is a partial agonist at the wild-type D(2) but an antagonist at both the mutant D(2) and wild-type D(4) receptors.

Reference: J Neurochem. 2009 Jul;110(1):45-57. https://pubmed.ncbi.nlm.nih.gov/19486266/

Product data sheet

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.