

Product Data Sheet

Product Name: LM11A-31 dihydrochloride

Cat. No.: GC38706

Chemical Properties

Cas. No. 1243259-19-9

SMILES CC[C@H](C)[C@H](N)C(NCCN1CCOCC1)=O.Cl.Cl

Formula $C_{12}H_{27}Cl_2N_3O_2$ M.Wt 316.27

Solubility Water: 125 mg/mL (395.23 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

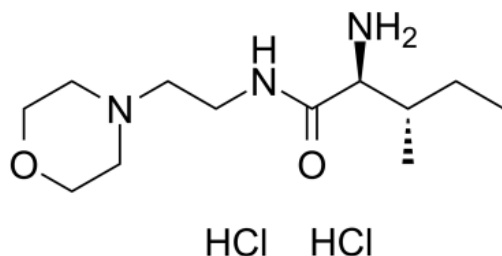
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

LM11A-31 dihydrochloride, a p75NTR (neurotrophin receptor p75) Ligand, is a potent proNGF (nerve growth factor) antagonist. LM11A-31 dihydrochloride is a water-soluble, non-peptide with high blood-brain barrier permeability[1][2].

LM11A-31 (oral gavage; 50 mg kg/day for 4 weeks) significantly mitigates proNGF accumulation and preserves BRB integrity[1]. LM11A-31 (orally; 50 or 75 mg/kg) administered for 3 months starting at 6-8 months of age prevents and/or reverses atrophy of basal forebrain cholinergic neurites and cortical dystrophic neurites in mid-stage male APPL/S mice[2]. Animal Model: Male C57BL/6 J mice[1]

[1]. Elshaer SL, et al. Modulation of the p75 neurotrophin receptor using LM11A-31 prevents

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diabetes-induced retinalvascular permeability in mice via inhibition of inflammation and the RhoA kinase pathway. Diabetologia. 2019 Aug;62(8):1488-1500. [2]. Simmons DA, et al. A small molecule p75NTR ligand, LM11A-31, reverses cholinergic neurite dystrophy in Alzheimer's disease mouse models with mid- to late-stage disease progression. PLoS One. 2014 Aug 25;9(8):e102136.

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