

DATA SHEET

Product Name: LM11A-31 2HCl

Catalog #: N-3005

Alt: CAS # 1243259-19-9; (2S,3S)-2-Amino-3-methyl-N-[2-(4-morpholinyl)ethyl]pentanamide, dihydrochloride

Source: Synthetic

Molecular Mass: 316.3 C₁₂H₂₅N₃O₂ • 2HCl

Analysis: >98% (TLC); NMR (Conforms)

Supplied As: Pale Yellow Powder

Resuspension: May be dissolved in DMSO (20 mg/ml): or water (30 mg/ml)

Storage: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 2 months.

Description: A nonpeptide neurotrophic factor receptor p75 (p75^{NTR}) agonist which promotes survival signaling in neurotrophin-responsive cells¹. Promotes functional recovery in a mouse model of spinal contusion injury². Protects neurogenesis after traumatic brain injury³. Reverses cholinergic neurite dystrophy in Alzheimer's disease mouse models⁴. Stabilizes neuronal calcium, preserves mitochondrial movement, and protects against HIV-associated neuropathogenesis⁵. Orally active and blood-brain barrier permeant.

References:

1. Massa, S.M., et al., (2006) J. Neurosci., 26: 5288
2. Tep, C., et al., (2013) J. Neurosci., 33: 397
3. Shi, J., et al., (2013) Stem Cells, 31: 2561
4. Simmons, D.A., et al., (2014) PLoS One, 9(8): e102136
5. Meeker, R.B., et al., (2016) Exp. Neurol., 275 Pt1: 182

For research use only. Not for use in humans.