

DATA SHEET

Product Name: LM-22A4

Catalog #: N-3006

Alt: CAS # 37988-18-4; *N,N,N*-Tris(2-hydroxyethyl)-1,3,5-benzenetricarboxamide

Molecular Mass: 339.3 C₁₅H₂₁N₃O₆

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

Supplied As: White powder

Resuspension: May be dissolved in DMSO (50 mg/ml): or water (50 mg/ml)

Storage: Store desiccated as supplied at -20°C for up to 1 year. Store solutions at -20°C for up to 1 month.

Description: Small molecule BDNF mimetic displaying neurotrophic activity. Partial agonist at TrkB and activates TrkB signaling. In *in vitro* models of neurodegenerative disease, it prevented neuronal degeneration with equal efficacy to that of BDNF. After *in vivo* administration, it caused hippocampal and striatal TrkB activation in mice and improved motor learning after traumatic brain injury in rats¹. Improves respiratory function in a mouse model of Rett syndrome².

References:
1. Massa, S.M., et al., (2010) J. Clin. Invest., *120*: 1774
2. Schmid, D.A., et al., (2012) J. Neurosci., *32*: 1803

For research use only. Not for use in humans.