



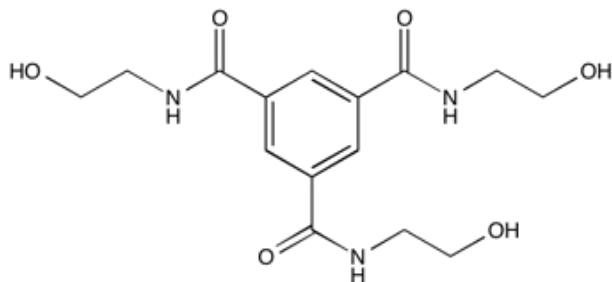
**Catalog # 10-1405**

**LM-22A4**

CAS# 37988-18-4

N,N,N' Tris(2-hydroxyethyl)-1,3,5-benzenetricarboxamide

Lot # S101007



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 rats<sup>1</sup>. Improves respiratory function in a mouse models of Rett syndrome<sup>2</sup>.

- 1) Massa *et al.* (2010), *Small molecule BDNF mimetics activate TrkB signaling and prevent neuronal degeneration in rodents*; J. Clin. Invest., **120** 1774
- 2) Schmid *et al.* (2012), *A TrkB small molecule partial agonist rescues TrkB phosphorylation deficits and improves respiratory function in a mouse model of Rett syndrome*; J. Neurosci., **32** 1803

**PHYSICAL DATA**

Molecular Weight:	339.35
Molecular Formula:	C <sub>15</sub> H <sub>21</sub> N <sub>3</sub> O <sub>6</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Water (up to 50 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

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