



Certificate of Analysis

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Product Name: LM 22A4 Catalog No.: 4607 Batch No.: 2

CAS Number: 37988-18-4

IUPAC Name: N,N',N"Tris(2-hydroxyethyl)-1,3,5-benzenetricarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{21}N_3O_6$ Batch Molecular Weight:339.34Physical Appearance:White solid

Solubility: DMSO to 100 mM

water to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 53.09 6.24 12.38 Found 52.89 6.24 12.27

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Product Information

Print Date: Jun 28th 2018

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CAS Number: 37988-18-4

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

Description:

Potent tropomyosin-related kinase B (TrkB) agonist. Induces activation of Trk, Akt and ERK in mouse hippocampus and striatum and exhibits neurotrophic activity. Reverses deficits in motor task learning in mice following traumatic brain injury; restores respiratory function in a rat model of Rett syndrome.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₂₁N₃O₆ Batch Molecular Weight: 339.34 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath)

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

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. PMID: 22302819.

Massa et al (2010) Small molecule BDNF mimetics activate TrkB signaling and prevent neuronal degeneration in rodents. J.Clin.Invest. 120 1774. PMID: 20407211.