

Certificate of Analysis

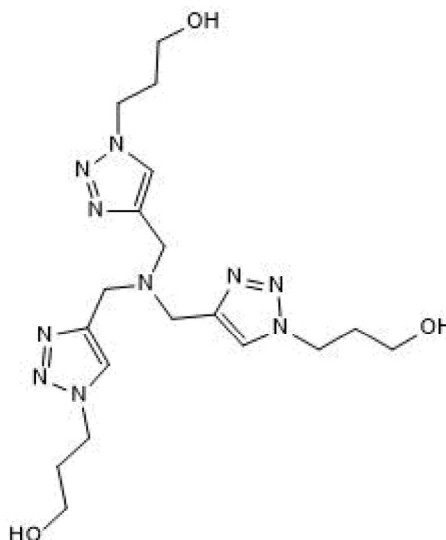
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Product Name: THPTA
CAS Number: 760952-88-3
IUPAC Name: Tris[(1-(3-hydroxypropyl)-1*H*-1,2,3-triazol-4-yl)methyl]amine

Catalog No.: 7863 **Batch No.:** 2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₃₀N₁₀O₃·¼H₂O
Batch Molecular Weight: 439.01
Physical Appearance: Off White solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	49.25	7	31.91
Found	48.87	6.82	31.43

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: Tris[(1-(3-hydroxypropyl)-1*H*-1,2,3-triazol-4-yl)methyl]amine

Description:

THPTA is a click chemistry auxiliary reagent. It is a stabilizing ligand for copper-catalyzed azide-alkyne cycloaddition reactions.

Physical and Chemical Properties:

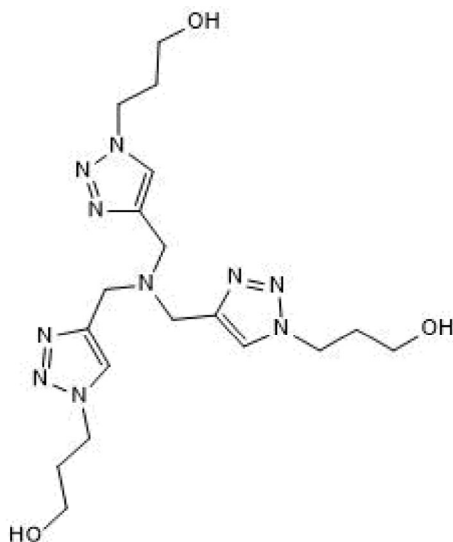
Batch Molecular Formula: C₁₈H₃₀N₁₀O₃·1/4H₂O

Batch Molecular Weight: 439.01

Physical Appearance: Off White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

DMSO 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Fantoni et al (2021) A Hitchhiker's guide to click-chemistry with nucleic acids. Chem.Rev. **121** 7122. PMID: 33443411.

Zhu et al (2020) Biomimetic α-selective ribosylation enables two-step modular synthesis of biologically important ADP-ribosylated peptides. Nat.Commun. **11** 5600. PMID: 33154359.

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