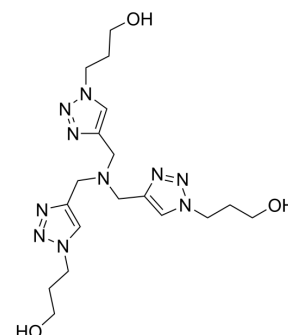


## Tris(3-hydroxypropyltriazolylmethyl)amine

Cat. No.:	HY-W021042
CAS No.:	760952-88-3
Molecular Formula:	C <sub>18</sub> H <sub>30</sub> N <sub>10</sub> O <sub>3</sub>
Molecular Weight:	434.5
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	<div> <div>Powder</div> <div> -20°C 3 years 4°C 2 years </div> </div> <div> <div>In solvent</div> <div> -80°C 6 months -20°C 1 month </div> </div>



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (230.15 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.3015 mL	11.5075 mL	23.0150 mL
	5 mM		0.4603 mL	2.3015 mL	4.6030 mL
	10 mM		0.2301 mL	1.1507 mL	2.3015 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Tris(3-hydroxypropyltriazolylmethyl)amine (THPTA, compound 3) is an accelerating ligand in the copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC). Tris(3-hydroxypropyltriazolylmethyl)amine protects the histidine moiety of biomolecules in a manner proportional to ligand concentration<sup>[1]</sup>.

### REFERENCES

[1]. Hong V, et al. Analysis and optimization of copper-catalyzed azide-alkyne cycloaddition for bioconjugation. Angew Chem Int Ed Engl. 2009;48(52):9879-83.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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