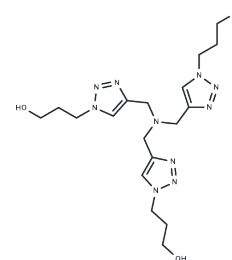


Tris(3-hydroxypropyltriazolylmethyl)amine

Chemical Properties

CAS No. :	760952-88-3
Formula:	C ₁₈ H ₃₀ N ₁₀ O ₃
Molecular Weight:	434.5
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Tris(3-hydroxypropyltriazolylmethyl)amine (THPTA) serves as an effective accelerator ligand for copper-catalysed azide-alkyne coupling (CuAAC), concurrently reducing toxicity to cells or organisms.
Targets(IC50)	Others
In vitro	Tris(3-hydroxypropyltriazolylmethyl)amine (250 μM, 1-5 minutes) as a ligand to accelerate the CuAAC reaction significantly improved the rate and efficiency of the CuAAC reaction, while protecting cells from oxidative damage. [1]

Solubility Information

Solubility	H ₂ O: ≥ 130 mg/mL, Sonication is recommended. DMSO: 80 mg/mL (184.12 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3015 mL	11.5075 mL	23.015 mL
5 mM	0.4603 mL	2.3015 mL	4.603 mL
10 mM	0.2301 mL	1.1507 mL	2.3015 mL
50 mM	0.046 mL	0.2301 mL	0.4603 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yuan Y, et al. Bioorthogonal Turn-On Probe Based on Aggregation-Induced Emission Characteristics for Cancer Cell Imaging and Ablation. Angew Chem Int Ed Engl. 2016 May 23;55(22):6457-61.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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