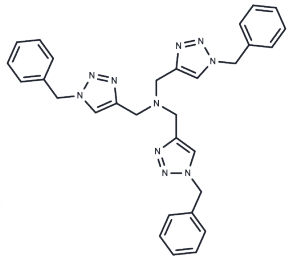
Data Sheet (Cat.No.T7086)

TargetMol

Tris(benzyltriazolylmethyl)amine

Chemical Properties



CAS No. : 510758-28-8

Formula: C30H30N10

Molecular Weight: 530.63

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Tris(benzyltriazolylmethyl)amine (TBTA) is a tertiary amine with three 1,2,3-triazole groups that complexes with and stabilizes copper(I), thereby accelerating azide-alkyne cycloadditions used in click chemistry.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 247 mg/mL (465.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (9.42 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8846 mL	9.4228 mL	18.8455 mL
5 mM	0.3769 mL	1.8846 mL	3.7691 mL
10 mM	0.1885 mL	0.9423 mL	1.8846 mL
50 mM	0.0377 mL	0.1885 mL	0.3769 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

Hong V, et al. Electrochemically Protected Copper(I)-Catalyzed Azide-Alkyne Cycloaddition[J]. Chembiochem, 2008, 9(9):1481-1486.

Cheng J, Liu Y, Yan J, et al. Fumarate suppresses B-cell activation and function through direct inactivation of LYN. Nature Chemical Biology. 2022: 1-9

Zhan Y, Chen Q, Song Y, et al. Berbamine Hydrochloride inhibits lysosomal acidification by activating Nox2 to potentiate chemotherapy-induced apoptosis via the ROS-MAPK pathway in human lung carcinoma cells. Cell Biology and Toxicology. 2022: 1-21

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