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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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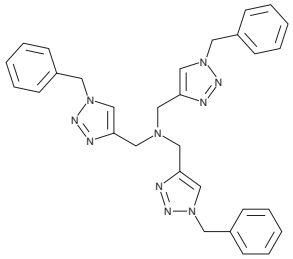
PRODUCT INFORMATION

TBTA

Item No. 18816

CAS Registry No.:	510758-28-8
Formal Name:	tris[(1-benzyl-1H-1,2,3-triazol-4-yl)methyl]amine
Synonym:	Tris(benzyltriazolylmethyl)amine
MF:	$C_{30}H_{30}N_{10}$
FW:	530.6
Purity:	≥98%
Stability:	≥2 years at -20°C
Supplied as:	A crystalline solid



Laboratory Procedures

For long term storage, we suggest that TBTA be stored as supplied at -20°C. It should be stable for at least two years

TBTA is supplied as a crystalline solid. A stock solution may be made by dissolving the TBTA in the solvent of choice. TBTA is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of TBTA in these solvents is approximately 30 mg/ml.

TBTA is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, TBTA should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. TBTA has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

TBTA is a tertiary amine with three 1,2,3-triazole groups. It complexes with, and stabilizes, copper(I) to accelerate azide-alkyne cycloadditions, as used in click chemistry.[1,2]

References

1. Hong, V., Udit, A.K., Evans, R.A., *et al.* Electrochemically protected copper(I)-catalyzed azide-alkyne cycloaddition. *ChemBioChem* **9(9)**, 1481-1486 (2008).
2. Kuang, G.-H., Michaels, H.A., Simmons, J.T., *et al.* Chelation-assisted, copper(II)-acetate-accelerated azide-alkyne cycloaddition. *J. Org. Chem.* **75(19)**, 6540-6548 (2010).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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