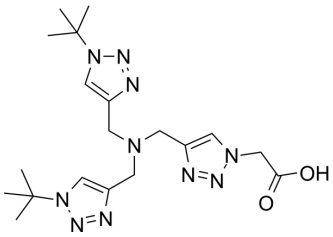
BTTAA

Cat. No.:	HY-100486
CAS No.:	1334179-85-9
Molecular Formula:	$C_{19}H_{30}N_{10}O_2$
Molecular Weight:	430.51
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

H_2O : 5 mg/mL (11.61 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3228 mL	11.6141 mL	23.2283 mL
	5 mM	0.4646 mL	2.3228 mL	4.6457 mL
	10 mM	0.2323 mL	1.1614 mL	2.3228 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 50 mg/mL (116.14 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

BTTAA is a Cu(I)-stabilizing ligand, whch performs potently with ubiquitin Glu18AzF.

In Vitro

BTTAA is a Cu(I)-stabilizing ligand. Using the Glu18AzF mutant of ubiquitin as a model system with C3-Tm^{3+} and C4-Tm^{3+}, Cu-BTTAA performs significantly better as a catalyst than Cu-THPTA or Cu-TBTA. BTTAA proves to perform much better than THPTA (tris[(1-hydroxy-propyl-1H-1,2,3-triazol-4-yl)methyl]amine) or TBTA (tris[(1-benzyl-1H-1,2,3-triazol-4-yl)methyl]amine)[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Am Chem Soc. 2018 Dec 5;140(48):16589-16595.
- ACS Appl Mater Interfaces. 2023 Dec 18.

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REFERENCES

[1]. Loh CT et al. Lanthanide tags for site-specific ligation to an unnatural amino acid and generation of pseudocontact shifts inproteins. Bioconjug Chem. 2013 Feb 20;24(2):260-8.

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