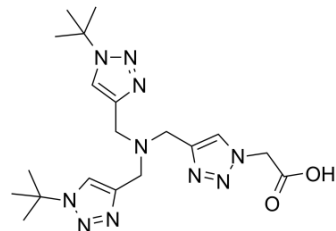


## BTTAA

Cat. No.:	HY-100486		
CAS No.:	1334179-85-9		
Molecular Formula:	C <sub>19</sub> H <sub>30</sub> N <sub>10</sub> O <sub>2</sub>		
Molecular Weight:	430.51		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 5 mg/mL (11.61 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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.

### BIOLOGICAL ACTIVITY

#### Description

BTTAA is a Cu(I)-stabilizing ligand, which 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<sup>3+</sup> and C4-Tm<sup>3+</sup>, 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)<sup>[1]</sup>.

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.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

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

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA