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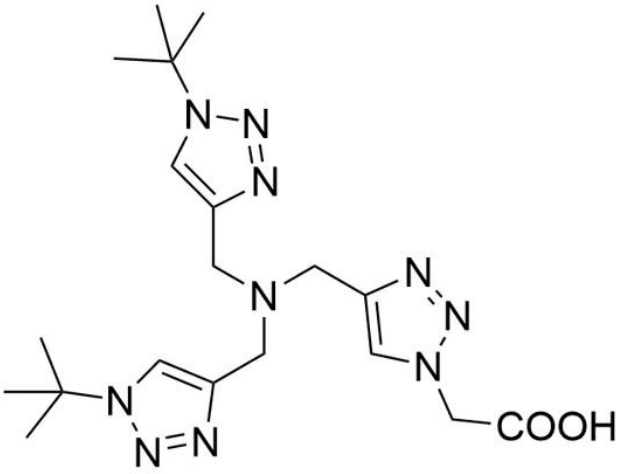
BTTAA

SKU: CCT-1236



DESCRIPTION

BTTAA is a newest generation, water-soluble accelerating ligand for CuAAC that provides much greater rate enhancement compared to previous generation ligands (e.g. THPTA or TBTA). More importantly, it minimizes perturbations to the physiological state of the cells or organisms probed and allows for effective bioconjugation with suppressed cell cytotoxicity by further lowering copper loading in the catalyst formulation.

SPECIFICATIONS

CAS Number	1334179-85-9
Molecular Weight	430.52
Appearance	Off-white to grey solid
Chemical Formula	C19H30N10O2

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

Purity	>95% (HPLC)
Unit Size	100 mg, 500 mg, 1000 mg
Solubility	Water, DMSO, DMF, MeOH
Storage Instructions	4°C.
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

SELECTED REFERENCES

1. Graham, A. J., *et al.* (2022). Extracellular Electron Transfer Enables Cellular Control of Cu(I)-Catalyzed Alkyne-Azide Cycloaddition. *ACS Cent Sci.*, **8 (2)**, 246-257. [PubMed]
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3. Wood, T. M., *et al.* (2021). Optimization of Metabolic Oligosaccharide Engineering with Ac_4GalNAlk and Ac_4GlcNAlk by an Engineered Pyrophosphorylase. *ACS Chem. Biol.,* [PubMed]
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6. Jun Kit Ow, M., *et al.* (2020). Super-Resolution Fluorescence Microscopy Reveals Nanoscale Catalytic Heterogeneity on Single Copper Nanowires. *ACS Appl. Nano Mater.,*, **3, 4**, 3163–7. [ACSPublications]
7. Jiang, H., *et al.* (2014). Monitoring Dynamic Glycosylation in Vivo Using Supersensitive Click Chemistry. *Bioconjugate Chem.,*, **25**, 698-706. [PubMed]
8. Uttamapinant, C., *et al*. (2012). Fast, Cell-Compatible Click Chemistry with Copper-Chelating Azides for Biomolecular Labeling. *Angew. Chem. Int. Ed,.*, **51**, 5852-56. [PubMed]
9. Besanceney-Webler, C., *et al*. (2011). Increasing the efficacy of bioorthogonal click reactions for bioconjugation: a comparative study. *Angew. Chem. Int. Ed,*. **50 (35)**: 8051–6. [PubMed]

DOCUMENTS

- Safety Data Sheet
- Download CoA

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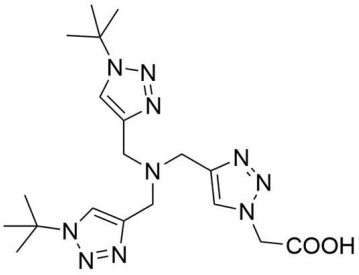
- Datasheet

GALLERY IMAGES



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