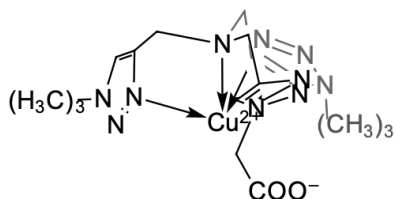


## Copper(II)-BTAA complex

<http://www.lumiprobe.com/p/copper-bttaa-complex>

Copper(II)-BTAA complex is a component of our recommended catalyst for conjugating azides with alkynes using a copper-catalyzed click reaction (CuAAC) in an aqueous medium. This complex is stable and contains divalent copper in the form of 10 mM  $\text{CuSO}_4$  in an aqueous solution of BTAA. When Cu(II)-BTAA is treated with reducing agents, such as [ascorbic acid](#), a catalytically active complex with monovalent copper(I) is formed.

BTAA maintains the catalyst's oxidation state of Cu(I) and protects biomolecules from oxidative damage during labeling. BTAA also significantly reduces the click reaction's cellular cytotoxicity by reducing the copper content in the catalyst.



### The chelation of Cu(II) scheme with the assistance of BTAA

#### General properties

- Appearance: light blue solution
- Solubility: good in water
- Quality control: NMR  $^1\text{H}$  and HPLC-MS (95+%)
- Storage conditions: 24 months after receipt at  $-20^\circ\text{C}$  in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
- Legal statement: Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.