



## Na-Ascorbate - click chemistry grade

L-Ascorbic acid sodium salt

Cat. No.	Amount
CLK-MI005-1G	5 x 200 mg

### For general laboratory use.

**Shipping:** shipped at ambient temperature

**Storage Conditions:** store at ambient temperature

**Additional Storage Conditions:** store dry

**Shelf Life:** 12 months after date of delivery

**Molecular Formula:** C<sub>6</sub>H<sub>7</sub>NaO<sub>6</sub>

**Molecular Weight:** 198.11 g/mol

**CAS#:** 134-03-2

**Form:** solid

**Color:** white to off-white

**Solubility:** water

### Description:

Na-Ascorbate can be used as a reduction reagent for Cu(I)-catalyzed Alkyne-Azide click chemistry reactions (CuAAC).

It catalyzes the reduction of Cu(II) sources such as CuSO<sub>4</sub> thereby releasing catalytically reactive Cu(I) ions.

Ideally, solutions should be freshly prepared in ddH<sub>2</sub>O shortly before use. Alternatively, a stock solution can be prepared, stored at -20°C and freshly by diluted shortly before use.

*Please note: Do not use solutions that appear brown. Freshly prepared, fully functional Na-Ascorbate solutions are colorless and turn brown upon oxidization thereby losing their reduction capability.*

Presolski *et al.*<sup>[1]</sup> and Hong *et al.*<sup>[2]</sup> provide a general protocol for CuAAC reactions that may be used as a starting point for the set up and optimization of individual assays.

### Related Products:

Copper (II)-Sulphate (CuSO<sub>4</sub>), #CLK-MI004  
 THPTA, #CLK-1010  
 BTAA, #CLK-067

### Selected References:

- [1] Presolski *et al.* (2011) Copper-Catalyzed Azide-Alkyne Click Chemistry for Bioconjugation. *Current Protocols in Chemical Biology* 3:153.  
 [2] Hong *et al.* (2011) Analysis and Optimization of Copper-Catalyzed Azide-Alkyne Cycloaddition for Bioconjugation. *Angew. Chem. Int. Ed.* 48:9879.