**Sodium ascorbate ab145813**

**Overview**

**Product name**  
Sodium ascorbate

**Description**  
More bioavailable form of vitamin C that is an alternative to taking ascorbic acid as a supplement.

**Biological description**  
Has growth inhibiting action in cultured human neoplastic cell lines at high concentrations. Combined with vitamin K3, demonstrates a synergistic inhibition of cell growth at 10 to 50 times lower concentrations which is completely suppressed by the addition of catalase to the culture medium containing vitamins C and K3, suggesting an excessive production of hydrogen peroxide as being implied in mechanisms responsible for the effects. Induces DNA single-strand breaks in human cells.

**Purity**  
> 99%

**Properties**

**Chemical name**  
L-Ascorbic acid sodium salt

**Molecular weight**  
201.13

**Chemical structure**

![Chemical Structure Image]

**Molecular formula**  
C$_6$H$_8$O$_6$.Na

**CAS Number**  
134-03-2

**Storage instructions**  
Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

**Solubility overview**  
Soluble in DMSO to 5 mM and in water to 100 mM

**Handling**  
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.

**Source**  
Synthetic

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