

Product Data Sheet

Product Name: Dehydroascorbic acid

Cat. No.: GC33746

Chemical Properties

Cas. No. 490-83-5

SMILES OC[C@@H]([C@](O1)([H])C(C(C1=O)=O)=O)O

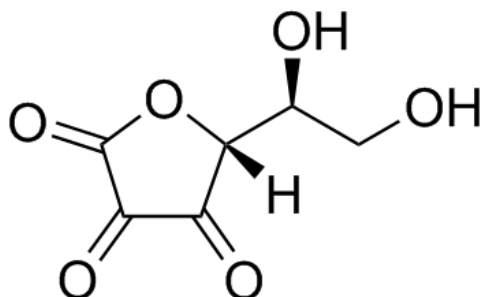
Formula $C_6H_6O_6$ M.Wt 174.11

Solubility DMSO: 10 mg/ml, DMSO:PBS (pH 7.2) (1:5): 0.16 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Dehydroascorbic acid, a blood-brain barrier transportable form of vitamin C, mediates potent

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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cerebroprotection in experimental stroke.

Neuronal injury in ischemic stroke is partly mediated by cytotoxic reactive oxygen species. Although the antioxidant ascorbic acid (AA) or vitamin C does not penetrate the blood-brain barrier (BBB), its oxidized form, dehydroascorbic acid (DHA), enters the brain by means of facilitative transport[1].

[1]. Huang J, et al. Dehydroascorbic acid, a blood-brain barrier transportable form of vitamin C, mediates potent cerebroprotection in experimental stroke. Proc Natl Acad Sci U S A. 2001 Sep 25;98(20):11720-4.

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