

Product Data Sheet

Product Name: Dihydrolipoic Acid

Cat. No.: GC43462

Chemical Properties

Cas. No. 462-20-4

SMILES OC(CCCCC(S)CCS)=O

Formula C₈H₁₆O₂S₂

M.Wt 208.3

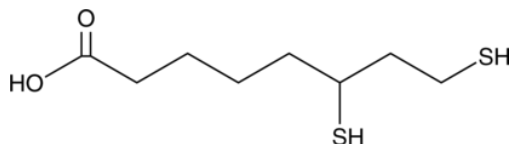
Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH 7.2) (1:8): 0.25 mg/ml

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

Dihydrolipoic acid (DHLA) is a dithiol-containing carboxylic acid that is the reduced form of α -lipoic acid. It acts as a general antioxidant that is highly reactive against a variety of reactive oxygen species, including hydroxyl radicals, peroxynitrite, hydrogen peroxide, and hypochlorite, at concentrations ranging from 0.01-0.5 mM. At concentrations of 50-100 μ M, DHLA triggers apoptosis of mouse embryonic stem cells and human cancer cells, suppressing proliferation.

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

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