

Product Data Sheet

Product Name: 3-Hydroxyglutaric Acid

Cat. No.: GC41477

Chemical Properties

Cas. No. 638-18-6

SMILES OC(CC(O)CC(O)=O)=O

Formula C₅H₈O₅

M.Wt 148.1

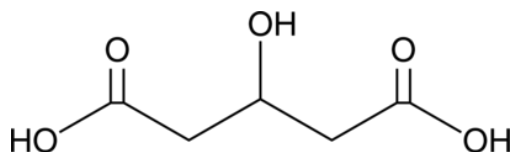
Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, PBS (pH 7.2): 10 mg/ml

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

Glutaryl-CoA dehydrogenase (GCDH) is a mitochondrial matrix protein that catalyzes the oxidative decarboxylation of glutaryl-CoA to crotonyl-CoA and carbon dioxide in the catabolic pathways of lysine, hydroxylysine, and tryptophan metabolism. 3-Hydroxyglutaric acid is one of several metabolites produced when insufficient levels of GCDH are available. Urinary levels of 3-hydroxyglutaric acid are elevated during glutaric acidemia type 1, an autosomal recessive GCDH deficiency disorder that can lead to neurodegeneration if left untreated. 3-Hydroxyglutaric acid is used as a biomarker of GCDH deficiency.

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

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