

Product Data Sheet

Product Name: L-Glutathione Reduced

Cat. No.: GC12203

Chemical Properties

Cas. No. 70-18-8

Chemical Name (S)-2-amino-5-(((R)-1-((carboxymethyl)amino)-3-mercapto-1-oxopropan-2-yl)amino)-5-oxopentanoic acid

SMILES SC[C@@H](C(NCC(O)=O)=O)NC(CC[C@@H](C(O)=O)N)=O

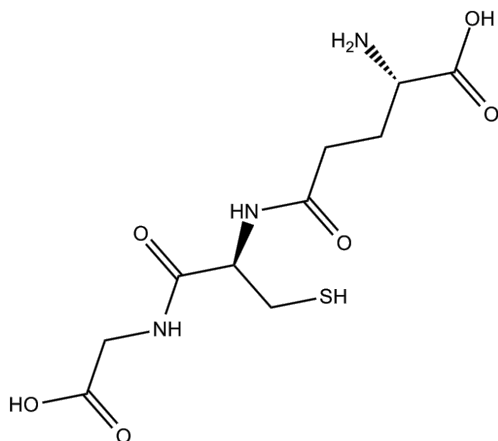
Formula $C_{10}H_{17}N_3O_6S$ M.Wt 307.32

Solubility $\geq 14.25\text{mg/mL}$ in Water Storage 4°C , protect from light, stored under nitrogen, unstable in solution, ready to use.

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

L-Glutathione reduced (GSH; γ -L-Glutamyl-L-cysteinyl-glycine) is an endogenous antioxidant and is

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capable of scavenging oxygen-derived free radicals.

L-Glutathione reduced is a non-protein thiol widely exists in living cells. L-Glutathione reduced plays important biological functions in the organism, including protein and DNA synthesis, enzyme activity, metabolism and cell protection. L-Glutathione reduced is capable of scavenging oxygen-derived free radicals and is established to be a marker of oxidative stress[1].

References:

[1]. Pereira-Rodrigues N, et al. Electrocatalytic activity of cobalt phthalocyanine CoPc adsorbed on a graphite electrode for the oxidation of reduced L-glutathione (GSH) and the reduction of its disulfide (GSSG) at physiological pH. Bioelectrochemistry. 2007 Jan;70(1):147-54.

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