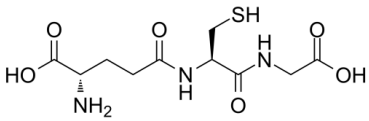
Data Sheet

Product Name:	L-Glutathione reduced
Cat. No.:	CS-7948
CAS No.:	70-18-8
Molecular Formula:	C10H17N3O6S
Molecular Weight:	307.32
Target:	Endogenous Metabolite; Ferroptosis; Reactive Oxygen Species
Pathway:	Apoptosis; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Solubility:	H2O : ≥ 60 mg/mL (195.24 mM)



BIOLOGICAL ACTIVITY:

L-Glutathione reduced (GSH; γ-L-Glutamyl-L-cysteinyl-glycine) is an endogenous antioxidant and is capable of scavenging oxygen-derived free radicals. **In Vitro:** 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.

CAIndexNames:

Glycine, L-γ-glutamyl-L-cysteinyl-

SMILES:

O=C(O)CNC([C@H](CS)NC(CC[C@H](N)C(O)=O)=O)=O

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

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