

Certificate of Analysis

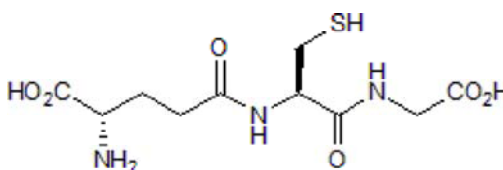
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Product Name: L-Glutathione Reduced
CAS Number: 70-18-8
IUPAC Name: L-γ-glutamyl-L-cysteinyl-glycine

Catalog No.: 5219 **Batch No.:** 3
EC Number: 200-725-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₇N₃O₆S
Batch Molecular Weight: 307.32
Physical Appearance: White crystalline powder
Solubility: water to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Optical Rotation: [α]_D = -17 (Concentration = 4, Solvent = Water)

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Catalog No.: 5219

Batch No.: 3

CAS Number: 70-18-8

EC Number: 200-725-4

IUPAC Name: L-γ-glutamyl-L-cysteinyl-glycine

Description:

L-Glutathione Reduced is an endogenous antioxidant; reduces reactive oxygen species formed during cellular metabolism. Regulates activity of the redox sensitive transcription factor NF-κB. Cytoprotective.

Physical and Chemical Properties:

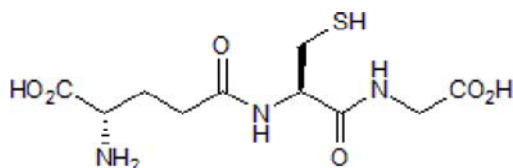
Batch Molecular Formula: C₁₀H₁₇N₃O₆S

Batch Molecular Weight: 307.32

Physical Appearance: White crystalline powder

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Kerksick et al (2005) The antioxidant role of glutathione and N-acetyl-cysteine supplements and exercise-induced oxidative stress. *J.Int.Soc.Sports Nutr.* **2** 38. PMID: 18500954 .

Sen et al (1999) Glutathione homeostasis in response to exercise training and nutritional supplements. *Mol.Cell.Biochem.* **196** 31. PMID: 10448900.

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