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Saisir le nom du produit, le numéro de lot, etc.

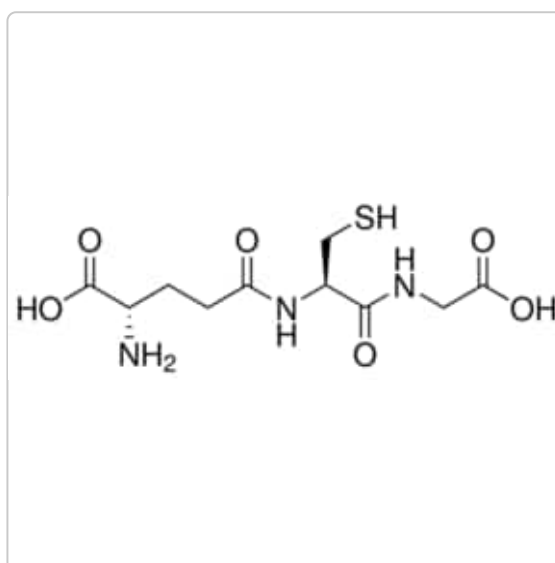


G4251 ► Sigma-Aldrich®

L-Glutathione reduced

★★★★★ (0)

≥98.0%



[Toutes les photos](#) (10)

Synonyme(s):

γ-L-Glutamyl-L-cysteinyl-glycine, GSH

Formule linéaire:

H₂NCH(CO₂H)CH₂CH₂CONHCH(CH₂SH)CONHCH₂CO₂H

Numéro CAS:

70-18-8

Poids moléculaire:

307.32

Beilstein:

1729812

Numéro EC:

200-725-4

Numéro MDL:

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NACRES:

NA.26

Select an Option

Référence

G4251-10MG



10 MG

27,70 €



Disponible pour expédition le 10 octobre 2022 - **De**

—

1

+

Ajouter au panier

[Demander une commande en gros](#)

Documents

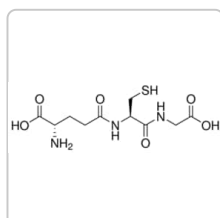
[↓ FDS](#)

[🔍 COO/COA](#)

[📄 Fiche des caractéristiques](#)

[Plus de documents »](#)

PRODUITS RECOMMANDÉS



Sigma-Aldrich

G6013

L-Glutathione reduced

suitable for cell culture, BioReagent, ≥98.0%, powder

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PROPRIÉTÉS

Niveau de qualité

300

Essai/Dosage

≥98.0%

Forme

powder

Couleur

white

Pf

192-195 °C (dec.) (lit.)

application(s)

detection

Temp. de stockage

2-8°C

SMILES stringN[C@@H](CCC(=O)N[C@@H](CS)C(=O)NCC(O)=O)C(O)=O**InChI**

1S/C10H17N3O6S/c11-5(10(18)19)1-2-7(14)13-6(4-20)9(17)12-3-8(15)16/h5-6,20H,1-4,11H2,
(H,12,17)(H,13,14)(H,15,16)(H,18,19)/t5-,6-/m0/s1

InChI key

RWSXRVCMGQZWV-WDSKDSINSA-N

Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

Catégories apparentées

[Amino Acids](#)

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Amino Acid Sequence

γ -Glu-Cys-Gly

Application

L-Glutathione (GSH) reduced has been used in the elution buffer to elute GST (glutathione S-transferase)-fused proteins using glutathione-agarose beads. It has been used to prepare a standard curve for GSH analyses.

May be used at 5-10 mM to elute glutathione S-transferase (GST) from glutathione agarose.

Conditionnement

10 mg in glass bottle

300 mg in poly bottle

1, 5, 10, 25, 50, 100, 250, 500 g in poly bottle

Actions biochimiques/physiologiques

Endogenous antioxidant that plays a major role in reducing reactive oxygen species formed during cellular metabolism and the respiratory burst. Glutathione-S-transferase catalyzes the formation of glutathione thioethers with xenobiotics, leukotrienes, and other molecules that have an electrophilic center. Glutathione also forms disulfide bonds with cysteine residues in proteins. Via these mechanisms, it can have the paradoxical effect of reducing the efficacy of anti-cancer agents.

Reduced L-glutathione (GSH) is a thiol compound and is associated with catabolism and transportation. Plasma GSH levels are associated with Parkinson's diseases, Alzheimer's, diabetes, macular degeneration, and HIV (human immunodeficiency virus) disease.

PRODUITS APPARENTÉS

Produit Apparenté

38185

Quantification kit for oxidized and reduced glutathione, 200 tests

[View Pricing](#)

Souvent Commandé Avec Ce Produit

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[GET YOURS HERE](#)[View Pricing](#)**G3664**

Glutathione Reductase from baker's yeast (*S. cerevisiae*), ammonium sulfate suspension, 100-300 units/mg protein (biuret)

[View Pricing](#)**L4530**

Latex beads, carboxylate-modified polystyrene, fluorescent yellow-green, aqueous suspension, 2.0 µm mean particle size

[View Pricing](#)

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 2

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

Eyeshields, Gloves, type N95 (US)

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

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Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

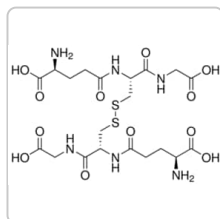
Plus De Documents

[Nutrition Research](#)

[Structure Search](#)

[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



SAFC

G2299

L-Glutathione oxidized

Consulter le prix et la disponibilité

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QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

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How do I get lot-specific information or a Certificate of Analysis?

The lot specific COA document can be found by entering the lot number above under the "Documents" section.

How do I find price and availability?

There are several ways to find pricing and availability for our products. Once you log onto our website, you will find the price and availability displayed on the product detail page. You can contact any of our Customer Sales and Service offices to receive a quote. USA customers: 1-800-325-3010 or view [local office numbers](#).

What is the Department of Transportation shipping information for this product?

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

How do I solubilize Product G4251, L-Glutathione reduced?

Reduced glutathione is freely soluble in water, dilute alcohol, liquid ammonia, and DMF.

What is the solution stability of Product G4251, L-Glutathione reduced?

Aqueous solutions readily oxidize in air to oxidized glutathione, GSSG. Half-lives of reduced glutathione in solution at various pHs and temperatures have been reported. The half-life of reduced glutathione is increased in the presence of a chelating agent. For supporting references, please consult the product information sheet (under Documents, above).

My question is not addressed here, how can I contact Technical Service for assistance?

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

The DNA repair domain of human rpS3 protects against photoaging by removing cyclobutane pyrimidine dimers.

Hee Woong Yang et al.

FEBS letters, 593(15), 2060-2068 (2019-06-11)

Ribosomal protein S3 (rpS3) has endonuclease activity for DNA repair. In particular, rpS3 cleaves the phosphodiester bonds of damaged DNA. In this study, we show that the repair domain of rpS3 spans amino acids 144-189. We fused rpS3 with the

Surface Plasmon Resonance (SPR) Analysis of Binding Interactions of Inner-Ear Proteins.

Drescher DG, et al.

Methods in Molecular Biology, 1427, 165-165 (2016)

Nitric oxide as an independent regulatory factor in regenerating rat liver.

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electrochemical oxidation of reduced glutathione and nonenzyme glucose sensor.

Yuan B et al.

Electrochimica Acta, 104, 78-78 (2013)

Co-purification and direct interaction of Ras with caveolin, an integral membrane protein of caveolae microdomains. Detergent-free purification of caveolae microdomains.

Song KS, et al.

The Journal of Biological Chemistry, 271, 9690-9690 (1996)

[Afficher tous les articles scientifiques apparentés](#)

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Mitochondrial Stress and ROS

Oxidative stress is mediated, in part, by reactive oxygen species produced by multiple cellular processes and controlled by cellular antioxidant mechanisms such as enzymatic scavengers or antioxidant modulators. Free...

Dietary Antioxidants

Antioxidants protect biological systems from oxidative damage produced by oxygen-containing free radicals and from redoxactive transition metal ions such as iron, copper, and cadmium.

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

G4166

Glucose Isomerase from *Streptomyces murinus*

≥350 U/g

[Consulter le prix et la disponibilité](#)

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Soyez le premier à donner votre avis sur ce produit

Questions

Soyez le premier à poser une question

SERVICE TECHNIQUE

Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

Contactez notre Service technique

Le contenu de cette page vous a-t-il été utile ?*



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