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

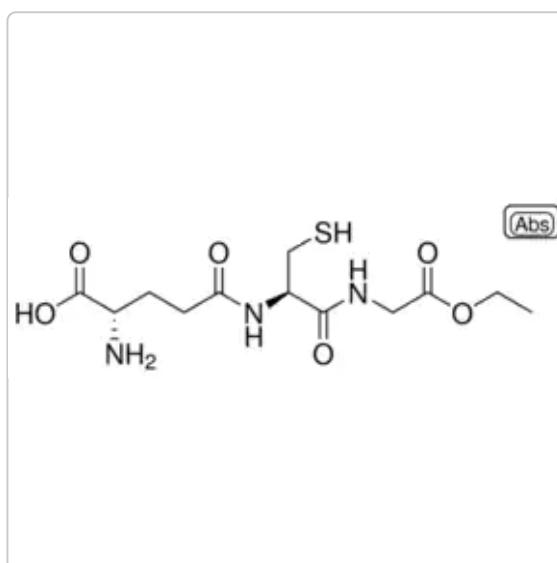


**G1404** ▶ **Sigma-Aldrich.**

## Glutathione reduced ethyl ester

★★★★★ (0)

≥90% (TLC)



[Toutes les photos](#) (1)

### Synonyme(s):

γ-Glu-Cys-Gly-OEt, GSH-MEE

### Empirical Formula (Hill Notation):

C<sub>12</sub>H<sub>21</sub>N<sub>3</sub>O<sub>6</sub>S

### Numéro CAS:

**92614-59-0**

### Poids moléculaire:

335.38

### Numéro MDL:

**MFCD00156117**

### ID de substance PubChem:

**329799840**

### NACRES:

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Select an option

Référence

G1404-25MG



25 MG

**108,00 €**



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

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1

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### Documents

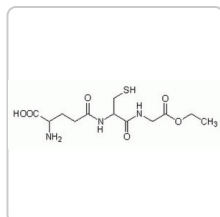
[↓ FDS](#)

[🔍 COO/COA](#)

[📄 Fiche des caractéristiques](#)

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## PRODUITS RECOMMANDÉS



Sigma-Aldrich

**353905**

**Glutathione Monoethyl Ester - CAS 118421-50-4 - Calbiochem**

Cell-permeable derivative of glutathione (GSH) that undergoes hydrolysis by intracellular esterases to release GSH.

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### Niveau de qualité

200

### Essai/Dosage

≥90% (TLC)

### Forme

powder

### Couleur

white to off-white

### Temp. de stockage

-20°C

### SMILES string

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

### InChI

1S/C12H21N3O6S/c1-2-21-10(17)5-14-11(18)8(6-22)15-9(16)4-3-7(13)12(19)20/h7-8,22H,2-6,13H2,1H3,(H,14,18)(H,15,16)(H,19,20)/t7-,8-/m0/s1

### InChI key

JKRODHBGNBKCZLE-YUMQZZPRSA-N

## Catégories apparentées

[Amino Acids](#)

## DESCRIPTION

### Amino Acid Sequence

Glu-Cys-Gly-OEt

### Application

Glutathione reduced ethyl ester has been used:

- to increase intracellular glutathione levels in mouse fibroblast L929 cells
- as a medium supplement in *Spodoptera frugiperda* (Sf)9 cells

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[GET YOURS HERE](#)**Actions biochimiques/physiologiques**

Glutathione reduced ethyl ester (GSH-MEE) is a membrane/lipid permeable derivative of GSH that may be used to partially supplement the GSH supply within cells subjected to cysteine and/or GSH depletion. GSH-MEE is hydrolysed by intracellular esterases to release GSH, thereby increases the concentrations of intracellular GSH. It prevents the toxic effects of acetaminophen in animal cells. It protects human lymphoid cells and skin fibroblasts against the damage caused due to radiation.

Glutathione reduced ethyl ester inhibits melanin synthesis by inhibiting tyrosinase activity in Melan-A cells. Its antimelanogenic functionality has potential in treating hyperpigmentation skin disorders. GEE supplementation during islets isolation from pancreas reduces reactive oxygen species production and apoptosis.

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**INFORMATIONS SUR LA SÉCURITÉ****Code de la classe de stockage**

13 - Non Combustible Solids

**WGK**

WGK 3

**Flash Point(F)**

Not applicable

**Point d'éclair C**

Not applicable

**Équipement de protection individuelle**

Eyeshields, Gloves, type N95 (US)

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**DOCUMENTATION****Certificat d'analyse**

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

Numéro de lot

e.g. 023J5431

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## 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)

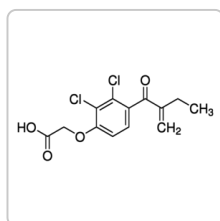
Rechercher

## Plus De Documents

[Structure Search](#)

[FDS](#)

## LES CLIENTS ONT ÉGALEMENT CONSULTÉ



**E1800000**

**Ethacrynic acid**

European Pharmacopoeia (EP) Reference Standard

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## ARTICLES REVUS PAR DES PAIRS

### Cytotoxic effects induced by oxidative stress in cultured mammalian cells and protection provided by Hsp27 expression

Arrigo A, et al.

*Methods*, 35(2), 126-138 (2005)

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A novel in vitro model to investigate time-dependent and concentration-dependent responses in blood cells and hemolytic events is studied for rat, dog, and human tissues. Whole blood is co-cultured with a precision-cut liver slice. Methimazole (MMI) was selected as a

## The glutathione derivative, GSH monoethyl ester, may effectively whiten skin but GSH does not

Chung B, et al.

*International Journal of Molecular Sciences*, 17(5), 629-629 (2016)

## Glutathione ethyl ester supplementation during pancreatic islet isolation improves viability and transplant outcomes in a murine marginal islet mass model

do Amaral ASR, et al.

*Testing*, 8(2), e55288-e55288 (2013)

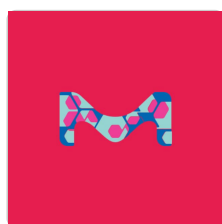
## Targeted supplementation design for improved production and quality of enveloped viral particles in insect cell-baculovirus expression system

Monteiro F, et al.

*Journal of Biotechnology*, 233(2), 34-41 (2016)

[Afficher tous les articles scientifiques apparentés](#)

## PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

### G1401

Glial Cell Line-derived Neurotrophic Factor from rat

recombinant, expressed in baculovirus infected S721 cells, lyophilized powder, suitable for cell culture, ≥97% (SDS-PAGE)

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## Évaluations



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# Questions

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## 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..

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