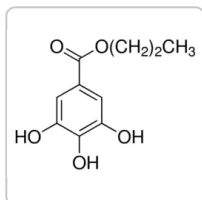


Saisir le nom du produit, le numéro de lot, etc.

[Toutes les photos \(3\)](#)

Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents »](#)**48710** ▶ **Sigma-Aldrich.**

Propyl gallate

★★★★★ (0)

antioxydant, ≥98.0% (HPLC)

Synonyme(s):

3,4,5-Trihydroxybenzoic acid propyl ester

Formule linéaire:

3,4,5-(HO)₃C₆H₂CO₂CH₂CH₂CH₃Numéro CAS: **121-79-9**

Beilstein: 1877976

Numéro MDL: **MFCD00002196**ID de substance PubChem: **329757396**

Poids moléculaire: 212.20

Numéro EC: **204-498-2**

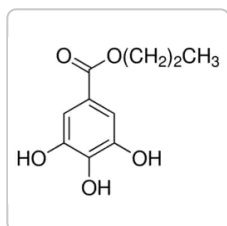
eCl@ss: 39024506

NACRES: NA.77

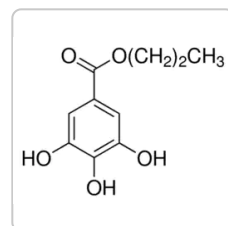
Référence	Conditionnement	Disponibilité	Prix	Quantité
48710-100G-F	100 G	✓ Only 3 left in stock (more on the way) Détails...	59,10 €	− + 
48710-500G-F	500 G	✓ Only 6 left in stock (more on the way) Détails...	238,00 €	− + 

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PRODUITS RECOMMANDÉS



Sigma-Aldrich

P3130**Propyl gallate**
powder[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

W294705**Propyl gallate**
≥98%, FCC[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Niveau de qualité 200

Essai/Dosage ≥98.0% (HPLC)

Forme solid

Pf 146-149 °C (lit.)
146-149 °C

SMILES string CCCOC(=O)c1cc(O)c(O)c(O)c1

InChI 1S/C10H12O5/c1-2-3-15-10(14)6-4-7(11)9(13)8(12)5-6/h4-5,11-13H,2-3H2,1H3

InChI key ZTHYODDOHIVTJV-UHFFFAOYSA-N

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

DESCRIPTION

Application

Used as an anti-fade reagent in fluorescence microscopy to reduce photobleaching of fluorescent probes such as rhodamine and fluorescein.

Actions biochimiques/physiologiques

An antioxidant that exhibits antimicrobial activity. Propyl gallate has been reported to be an effective antioxidant-based hepatoprotector, both *in vitro* and *in vivo*. It has also been shown to prevent neuronal apoptosis and block the death of neurons exposed to FeSO₄/GA as well as partially protect endothelial cells against TNF-induced apoptosis.

An antioxidant that exhibits antimicrobial activity. Propyl gallate has been reported to be an effective antioxidant-based hepatoprotector, both *in vitro* and *in vivo*. It has also been shown to prevent neuronal apoptosis and block the death of neurons exposed to FeSO₄/GA as well as partially protect endothelial cells against TNF-induced apoptosis. However, propyl gallate induced single strand breaks in DNA at concentrations higher than 0.25 µM when it was combined with copper concentrations at 5 µM and above. Another report, however, found that incubation of isolated rat hepatocytes with propyl gallate at concentrations of >1 mM induced cell killing, whereas, a lower concentration of propyl gallate > 0.5 mM resulted in a ladder formation of soluble low-molecular weight DNA fragments, characteristic of apoptosis.

Reconstitution

Prepare a 0.1M solution in glycerol:PBS (9:1)

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS05,GHS07,GHS09

Mention d'avertissement

Danger

Mentions de danger

H302 - H317 - H318 - H410

Conseils de prudence

P261 - P273 - P280 - P301 +
P312 - P302 + P352 - P305 +
P351 + P338

Classification des risques

Acute Tox. 4 Oral - Aquatic
Acute 1 - Aquatic Chronic 1 -
Eye Dam. 1 - Skin Sens. 1

Code de la classe de stockage

13 - Non Combustible Solids

WGK

WGK 2

Flash Point(F)

368.6 °F - closed cup

Point d'éclair C

187 °C - closed cup

Équipement de protection individuelle

dust mask type N95 (US),
Eyeshields, Faceshields,
Gloves

DOCUMENTATION

Certificat d'analyse

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

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

[Rechercher](#)

Certificat d'origine

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

Numéro de lot

e.g. 023J5431

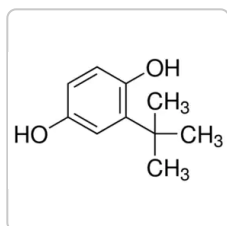
Comment saisir un numéro de lot (COO)

[Rechercher](#)

Plus De Documents

[Structure Search](#)[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

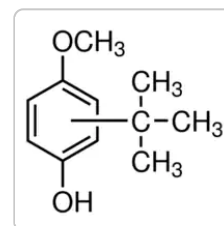


Sigma-Aldrich

112941

tert-Butylhydroquinone

97%

[Consulter le prix et la disponibilité](#)

Supelco

78943

Butylated hydroxyanisole

analytical standard

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Anti-oxidant, anti-fungal and anti-leishmanial activities of novel 3-[4-(1H-imidazol-1-yl) phenyl]prop-2-en-1-ones.

Tanvir Hussain et al.

European journal of medicinal chemistry, 44(11), 4654-4660 (2009-08-12)

A series of new 3-[4-(1H-imidazol-1-yl) phenyl]prop-2-en-1-ones were synthesized by the condensation of various acetophenones with 4-(1H-imidazol-1-yl) benzaldehyde which was itself prepared by the N-arylation of imidazole using hexadecyltrimethylammonium bromide as catalyst for the first time. All the synthesized compounds were

Anti-oxidant and anti-bacterial activities of novel N'-arylmethylidene-2-(3, 4-dimethyl-5, 5-dioxidopyrazolo[4,3-c][1,2]benzothiazin-2(4H)-yl) acetohydrazides.

Matloob Ahmad et al.

European journal of medicinal chemistry, 45(2), 698-704 (2009-12-08)

A series of potential anti-oxidant and anti-bacterial N'-arylmethylidene-2-(3,4-dimethyl-5,5-dioxidopyrazolo[4,3-c][1,2]benzothiazin-2(4H)-yl)acetohydrazides was synthesized in a facile way starting from commercially available saccharine. 3,4-Dimethyl-2,4-dihydropyrazolo[4,3-c][1,2]benzothiazine 5,5-dioxide was obtained by ring expansion of 2-(2-oxopropyl)-1,2-benzisothiazol-3(2H)-one 1,1-dioxide followed by N-methylation and cyclization with hydrazine using ultrasonic irradiation. N-alkylation

Role of redox signaling regulation in propyl gallate-induced apoptosis of human leukemia cells.

Ching-Hsein Chen et al.

Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association, 49(2), 494-501 (2010-11-30)

Propyl gallate (PG) is a synthetic antioxidant that has been used in processed food and medicinal preparations. The anti-cancer effect of PG in leukemia is unclear. In the present study, we demonstrate that PG reduced cell viability in THP-1, Jurkat

Oxidative stability of cooked, frozen, reheated beef patties: effect of antioxidants.

Paola Colindres et al.

Journal of the science of food and agriculture, 91(5), 963-968 (2011-01-22)

The effect of selected antioxidants (grape seed extract (GS), oleoresin rosemary (OR), water-soluble oregano extract (WO), propyl gallate (PG), butylated hydroxyanisole (BHA)), butylated hydroxytoluene (BHT)) on sensory, color and oxidative stability of cooked, frozen, reheated ground

beef patties was evaluated.

Effects of n-propyl gallate on neuronal survival after forebrain ischemia in rats.

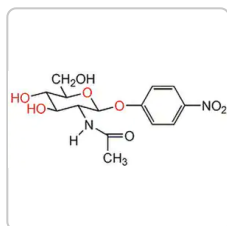
Yasunobu Kawano et al.

Resuscitation, 83(2), 249-252 (2011-08-02)

The present study was conducted to assess the effects of intraperitoneal administration of n-propyl gallate (PG) on hippocampal neuronal survival after forebrain ischemia. Forty male Sprague-Dawley rats were randomly assigned to one of 6 groups. Animals in the PG-I-10, PG-I-8

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PRODUITS CONSULTÉS RÉCEMMENT



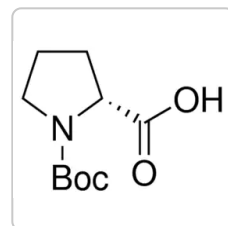
Sigma-Aldrich

487052

**p-Nitrophenyl-N-acetyl-β-D-glucosaminide -
CAS 3459-18-5 - Calbiochem**

Useful substrate for rapid colorimetric assay of N-acetyl-β-glucosaminidase activity in human urine.

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

483818

N-Boc-D-proline

99%

[Consulter le prix et la disponibilité](#)

Évaluations

★★★★★

[Soyez le premier à donner votre avis sur ce produit](#)

Questions

Soyez le premier à poser une question

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