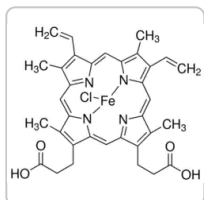


Saisir le nom du produit, le numéro de lot, etc.



Toutes les
photos (3)

Documents

[FDS](#)

[COO/COA](#)

[Fiche des caractéristiques](#)

Plus de
documents »

H9039 ► **Sigma-Aldrich.**

Hemin

★★★★★ (0)

from bovine, ≥90%

Synonyme(s):

Chloro(protoporphyrinato)iron(III), Chlorohemin, Chloroproteoporphyrin IX iron(III), Ferriprotoporphyrin IX chloride, Hemin(chloride)

Empirical Formula (Hill Notation):

C₃₄H₃₂ClFeN₄O₄

Numéro CAS: **16009-13-5**

Poids moléculaire: 651.94

Beilstein: 5229914

Numéro EC: **240-140-1**

Numéro MDL: **MFCD00010726**

ID de substance PubChem: **329815257**

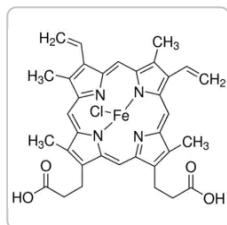
NACRES: NA.61

Référence	Conditionnement	Disponibilité	Prix	Quantité
H9039-1G	1 G	Only 1 left in stock (more on the way) Détails...	56,60 €	− +
H9039-10G	10 G	Only 6 left in stock (more on the way) Détails...	372,00 €	− +
H9039-100G	100 G	Only 2 left in stock (more on the way) Détails...	790,00 €	− +

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[Ajouter au panier](#)

PRODUITS RECOMMANDÉS



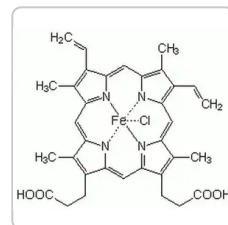
Sigma-Aldrich

51280

Hemin

BioXtra, from Porcine, $\geq 96.0\%$ (HPLC)

[Consulter le prix et la disponibilité](#)



Millipore

3741

Hemin Chloride - CAS 16009-13-5 - Calbiochem

Iron-containing compound of porcine origin that can induce hydrogen peroxide-dependent lipid peroxidatio...

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Source biologique

bovine

Niveau de qualité

200

Essai/Dosage

$\geq 90\%$

Forme

powder

technique(s)

toxicology assay: suitable

Solubilité

1.4 M NH_4OH : soluble 25 mg/mL

Temp. de stockage	2-8°C
SMILES string	<chem>Cc1c(CCC(O)=O)c2cc3c(CCC(O)=O)c(C)c4cc5nc(cc6c(C)c(C=C)c(cc1n2)n6[Fe])(Cl)n34)c(C=C)c5C</chem>
InChI	1S/C34H34N4O4.ClH.Fe/c1-7-21-17(3)25-13-26-19(5)23(9-11-33(39)40)31(37-26)16-32-24(10-12-34(41)42)20(6)28(38-32)15-30-22(8-2)18(4)27(36-30)14-29(21)35-25;;/h7-8,13-16H,1-2,9-12H2,3-6H3,(H4,35,36,37,38,39,40,41,42);1H;/q;;+3/p-3/b25-13-,26-13-,27-14-,28-15-,29-14-,30-15-,31-16-,32-16-;;
InChI key	BTIJJDXEELBZFS-HXFTUNQESA-K

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

DESCRIPTION

Description générale

Heme is a small molecule present either free or bound to hemoglobin in the bloodstream of mammals. This is an alternative source of iron within the host that contains a porphyrin ring containing a Fe^{2+} ion called hemin.

Application

Hemin was used to study conjugation, characterization and toxicity of lipophosphoglycan-polyacrylic acid conjugate for vaccination against leishmaniasis.

Conditionnement

1, 10, 100 g in glass bottle

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)			

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)

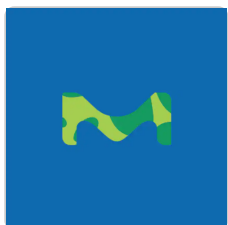
Rechercher

Plus De Documents

Structure Search

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



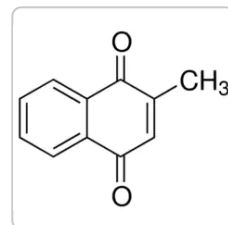
Millipore

B2926

Brucella Agar with Hemin and Vitamin K1

suitable for microbiology, NutriSelect® Plus

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Sigma-Aldrich

M5625

Menadione

crystalline

Consulter le prix et la disponibilité

QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

Which document(s) contains shelf-life or expiration date information for a given product?

If available for a given product, the recommended re-test date or the expiration date can be found on the Certificate of Analysis.

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.

What is the solubility of Hemin, Product H9039?

Hemin can be dissolved in basic solution. A 25 mg/ml solution can be prepared in 1.4 M ammonium hydroxide with heating to 95°C for less than 5 minutes. Hemin is also expected to be soluble in a sodium hydroxide solution. Hemin has been reported to be soluble at 1 mM concentration in DMSO, per Tomlinson and Ferguson, Proceedings of the National Academy of Sciences, 97, 5156-5160 (2000). A 0.25% hemin solution can also be prepared in 50% triethanolamine solution.

How stable is Hemin, Product H9039, in solution?

Sigma-Aldrich has not evaluated the solution stability of hemin solutions. Also, we have not found any information on solution storage in the literature. We recommend that solutions be prepared fresh.

What is the shelf life for Hemin, Product H9039?

There is no shelf life date assigned to this product. The guarantee of quality is for one year from the time of shipment for bottles stored as recommended.

What are some applications for Hemin, Product H9039?

Hemin-agarose has reportedly been prepared for use in affinity chromatography of heme-binding proteins. See Tsutsui, K., Affinity chromatography of heme-binding proteins: Synthesis of hemin-agarose. Meth. Enzymol. 123, 331, (1986). Sigma supplies a hemin agarose, product H6390. Hemin can also be used as a component in culture media for the cultivation of bacteria, such as Leishmania tarentolae.

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.

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

ARTICLES REVUS PAR DES PAIRS

Post-embryonic development in *Caenorhabditis elegans*.

D L Riddle

International journal for parasitology, 17(1), 223-231 (1987-02-01)

Conjugation, characterization and toxicity of lipophosphoglycan-polyacrylic acid conjugate for vaccination against leishmaniasis.

Murat Topuzogullari et al.

Journal of biomedical science, 20, 35-35 (2013-06-05)

Research on the conjugates of synthetic polyelectrolytes with antigenic molecules, such as proteins, peptides, or carbohydrates, is an attractive area due to their highly immunogenic character in comparison to classical adjuvants. For example, polyacrylic acid (PAA) is a weak polyelectrolyte

The Monothiol Glutaredoxin Grx4 Regulates Iron Homeostasis and Virulence in *Cryptococcus neoformans*.

Rodgoun Attarian et al.

mBio, 9(6) (2018-12-06)

The acquisition of iron and the maintenance of iron homeostasis are important aspects of virulence for the pathogenic fungus *Cryptococcus neoformans*. In this study, we characterized the role of the monothiol glutaredoxin Grx4 in iron homeostasis and virulence in *C.*

A *Plasmodium* homolog of ER tubule-forming proteins is required for parasite virulence.

Xiaoyu Shi et al.

Molecular microbiology, 114(3), 454-467 (2020-05-21)

Reticulon and REEP family of proteins stabilize the high curvature of endoplasmic reticulum (ER) tubules. *Plasmodium berghei* Yop1 (PbYop1) is a REEP5 homolog in *Plasmodium*. Here, we characterize its function using a gene-knockout (Pbyop1Δ). Pbyop1Δ asexual stage parasites display abnormal

Indocyanine green matching phantom for fluorescence-guided surgery imaging system characterization and performance assessment.

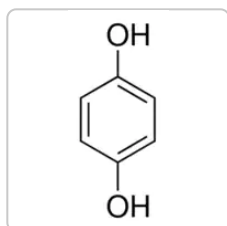
Alberto J Ruiz et al.

Journal of biomedical optics, 25(5), 1-15 (2020-05-23)

Expanded use of fluorescence-guided surgery with devices approved for use with indocyanine green (ICG) has led to a range of commercial systems available. There is a compelling need to be able to independently characterize system performance and allow for cross-system

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PRODUITS CONSULTÉS RÉCEMMENT



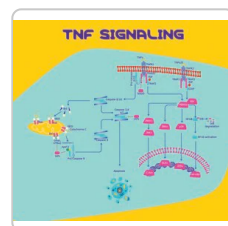
Sigma-Aldrich

H9003

Hydroquinone

ReagentPlus®, ≥99%

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Sigma-Aldrich

H8916

Tumor Necrosis Factor- α human

TNF- α , recombinant, expressed in HEK 293 cells, suitable for cell culture

[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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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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