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

Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents »](#)**P7633** ▶ **Sigma-Aldrich.**

Phospholipase C from *Clostridium perfringens* (*C. welchii*)



★★★★★ (0)

Type I, lyophilized powder, 10-50 units/mg protein

Synonyme(s):

Lecithinase C, Lipophosphodiesterase I, PC-PLC, Phosphatidylcholine cholinephosphohydrolase

Numéro CAS: **9001-86-9**Numéro de classification
(Commission des enzymes):**3.1.4.3 (BRENDA, IUBMB)**Numéro EC: **232-638-2**

Numéro MDL:

MFCD00131895

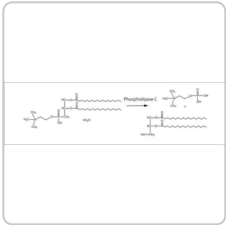
NACRES: NA.54

Référence	Conditionnement	Disponibilité	Prix	Quantité
P7633-25UN	25 UNITS	✓ Date d'expédition estimée le 15 novembre 2022	55,80 €	− + i
P7633-125UN	125 UNITS	✓ Only 5 left in stock (more on the way) Détails...	175,00 €	− + i
P7633-500UN	500 UNITS	✓ Only 4 left in stock (more on the way) Détails...	520,00 €	− + i

[Demander une commande en gros](#)[Ajouter au panier](#)

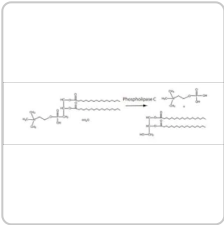


PRODUITS RECOMMANDÉS



Sigma-Aldrich
P4039
Phospholipase C from *Clostridium perfringens*
(*C. welchii*)
Type XIV, lyophilized powder, ≥150 units/mg protein

Consulter le prix et la disponibilité



Sigma-Aldrich
P6621
Phospholipase C from *Bacillus cereus*
≥200 units/mg protein

Consulter le prix et la disponibilité



PROPRIÉTÉS

Source biologique	bacterial (<i>Clostridium perfringens</i>)
Niveau de qualité	200
Type	Type I
Forme	lyophilized powder
specific activity	10-50 units/mg protein
Composition	protein, 20-40%

Caractéristiques du produit alternatif plus écologique

Waste Prevention
Design for Energy Efficiency
Learn more about the [Principles of Green Chemistry](#).

application(s) diagnostic assay manufacturing

Autre catégorie plus écologique [Enabling](#)

Temp. de stockage -20°C

Gene Information *Clostridium perfringens* str. 13 ... [plc\(988262\)](#)

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

Catégories apparentées

[Greener Alternative Products](#)

DESCRIPTION

Description générale

We are committed to bringing you Greener Alternative Products, which adhere to one or more of The 12 Principles of Greener Chemistry. This product has been enhanced for energy efficiency and waste prevention when used in biodiesel research. For more information see the [article in biofiles](#).

Application

Phospholipase C (PLC) has been used to study adrenoceptor-mediated transmembrane signaling. It is also used to degrade inositol-containing phospholipids. Furthermore, it has been used to study *9E3* gene activation.

Actions biochimiques/physiologiques

PLC hydrolyzes the phosphate bond on phosphatidylcholine and other glycerophospholipids yielding diacylglycerol. This enzyme also hydrolyzes the phosphate bonds of sphingomyelin, cardiolipin, choline plasmalogen and ceramide phospholipids.

Phospholipase C is induced by thrombin and platelet-activating factor, forming 1,2-diacylglycerol and phosphatidic acid.

Hydrolyzes the phosphate bond on phosphatidylcholine and other glycerophospholipids yielding diacylglycerol; this enzyme will also hydrolyze the phosphate bonds of sphingomyelin, cardiolipin, choline plasmalogen and ceramide phospholipids.

Définition de l'unité

One unit will liberate 1.0 μ mole of water soluble organic phosphorus from egg yolk L- α -phosphatidylcholine per min at pH 7.3 at 37 °C.

PRODUITS APPARENTÉS

Inhibiteur

D6518

Diethylenetriaminepentaacetic acid, $\geq 99\%$ (titration)

[View Pricing](#)

P9375

1,10-Phenanthroline monohydrate, reagent grade

[View Pricing](#)**E4378**Ethylene glycol-bis(2-aminoethylether)-*N,N,N',N'*-tetraacetic acid, ≥97.0%[View Pricing](#)**ED2SS**

Ethylenediaminetetraacetic acid disodium salt dihydrate, reagent grade, 98.5-101.5% (titration)

[View Pricing](#)**Substrat****N5879**

O-(4-Nitrophenylphosphoryl)choline

[View Pricing](#)**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)

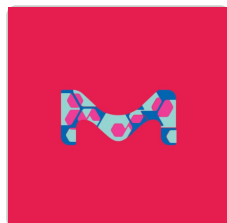
Rechercher

Plus De Documents

Enzyme Explorer

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



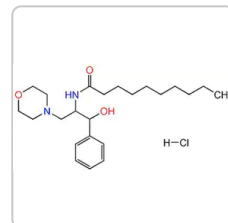
Sigma-Aldrich

P0065

Phospholipase D from *Streptomyces chromofuscus*

≥50,000 units/mL, buffered aqueous glycerol solution

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

513100

DL-*threo*-PDMP, Hydrochloride - CAS 80938-69-8 - Calbiochem

PDMP closely resembles the natural sphingolipid substrate of brain glucosyltransferase and acts as a...

[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.

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.

Are Products P7633 and P4039, Phospholipase C from Clostridium perfringens (C. welchii), prepared from the same strain?

Products P7633 and P4039, Phospholipase C, from Clostridium perfringens (C. welchii) are prepared from the same strain.

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

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

A Recombinant Probiotic, Lactobacillus casei, Expressing the Clostridium perfringens α -toxoid, as an Orally Vaccine Candidate Against Gas Gangrene and Necrotic Enteritis.

Mojtaba Alimolaei et al.

Probiotics and antimicrobial proteins, 10(2), 251-257 (2017-04-13)

The alpha-toxin is one of the virulence factors of Clostridium perfringens for gas gangrene in humans and animals or necrotic enteritis in poultry. The C-terminal domain of this toxin (cpa 247-370) was synthesized and cloned into pT1NX vector

Evidence that v-src and v-fps gene products use a protein kinase C-mediated pathway to induce expression of a transformation-related gene.

R Spangler et al.

Proceedings of the National Academy of Sciences of the United States of America, 86(18), 7017-7021 (1989-09-01)

Induction of the transformation-related gene 9E3 by the v-src and v-fps gene products (v-Src and v-Fps) is blocked in chicken embryo fibroblasts depleted of protein kinase C (PKC). PKC agonists induce 9E3 gene expression. Protein kinase inhibitors block v-Src- and

von Willebrand factor mutation promotes thrombocytopathy by inhibiting integrin α IIb β 3.

Caterina Casari et al.

The Journal of clinical investigation, 123(12), 5071-5081 (2013-11-26)

von Willebrand disease type 2B (vWD-type 2B) is characterized by gain-of-function mutations in von Willebrand factor (vWF) that enhance its binding to the glycoprotein Ib-IX-V complex on platelets. Patients with vWD-type 2B have a bleeding tendency that is linked to

CD22 ligation inhibits downstream B cell receptor signaling and Ca(2+) flux upon activation.

N Sieger et al.

Arthritis and rheumatism, 65(3), 770-779 (2012-12-13)

CD22 is a surface molecule exclusively expressed on B cells that regulates adhesion and B cell receptor (BCR) signaling as an inhibitory coreceptor of the BCR. Central downstream signaling molecules that are activated upon BCR engagement include spleen tyrosine kinase

NRP1 presented in trans to the endothelium arrests VEGFR2 endocytosis, preventing angiogenic signaling and tumor initiation.

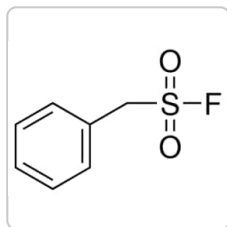
Sina Koch et al.

Developmental cell, 28(6), 633-646 (2014-03-25)

Neuropilin 1 (NRP1) modulates angiogenesis by binding vascular endothelial growth factor (VEGF) and its receptor, VEGFR2. We examined the consequences when VEGFR2 and NRP1 were expressed on the same cell (cis) or on different cells (trans). In cis, VEGF induced

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PRODUITS CONSULTÉS RÉCEMMENT

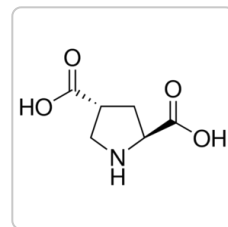


Sigma-Aldrich

P7626

Phenylmethanesulfonyl fluoride

≥98.5% (GC)



Sigma-Aldrich

P7575

L-trans-Pyrrolidine-2,4-dicarboxylic acid

≥98%

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Évaluations

[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..

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