

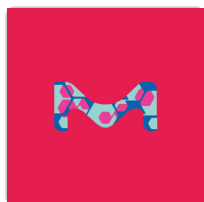
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P1261 ► Sigma-Aldrich.

Phosphorylase a from rabbit muscle

★★★★★ (0)

lyophilized powder, 20-30 units/mg protein

Synonyme(s):

1,4- α -D-Glucan:orthophosphate α -D-glucosyltransferaseNuméro CAS: **9032-10-4**Numéro EC: **232-878-8**

NACRES: NA.54

Numéro de classification
(Commission des enzymes):**2.4.1.1 (BRENDA, IUBMB)**

Numéro MDL:

MFCD00167428

Référence	Conditionnement	Disponibilité	Prix	Quantité
P1261-10MG	10 MG	Only 2 left in stock (more on the way)	192,00 €	1 2 3 4 5 6 7 8 9 10
P1261-25MG	25 MG	Only 5 left in stock (more on the way)	382,00 €	1 2 3 4 5 6 7 8 9 10

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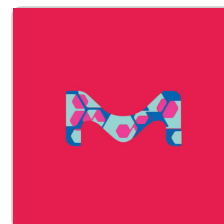
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Sigma-Aldrich

P6635

Phosphorylase b from rabbit muscle
lyophilized powder, ≥ 20 units/mg protein

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

P2014

Phosphorylase Kinase from rabbit muscle
lyophilized powder, ≥ 60 units/mg protein

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Source biologique	rabbit muscle
Niveau de qualité	200
Forme	lyophilized powder
specific activity	20-30 units/mg protein
Purifié(e)s par	2× crystallization
Composition	Protein, 30-60% E1%/280
Activité étrangère	AMP-phosphatase, ATP-phosphatase, debrancher enzyme and phosphorylase phosphatase $\leq 0.1\%$ phosphoglucomutase $\leq 0.25\%$

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DESCRIPTION

Description générale

Phosphorylase A is the active form of glycogen phosphorylase which converts glycogen and orthophosphate (Pi) to glucose 1-phosphate (G-1-P).

Application

Phosphorylase a from rabbit muscle has been used to mix with glycogen for the preparation of limit dextrin. It has also been used to probe the array in oligosaccharide microarray analysis of phosphorylase activity.

Phosphorylase from rabbit muscle has been used in a study to assess the molecular mechanisms of oleanolic acid. It has also been used in a study to describe the conversion of phosphorylase B to A, through a conversion enzyme in the presence of ^{32}P -ATP.

Conditionnement

10, 25 mg in poly bottle

Actions biochimiques/physiologiques

Dimeric phosphorylase b is converted to the more active tetramer, phosphorylase a, by the action of phosphorylase kinase.

Phosphorylase A can be inhibited by these compounds: Polychlorinated biphenyls, polychlorinated biphenylols and polybrominated biphenyls.

Phosphorylase participates in glycogenolysis. Deficiency of phosphorylase leads to several glycogen storage diseases with hepatomegaly.

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~45 Cori units.)

Forme physique

Lyophilized powder containing β -glycerophosphate and EDTA

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

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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)

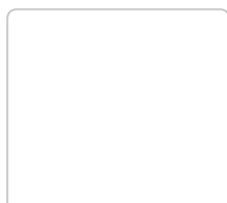
Rechercher

Plus De Documents

Enzyme Explorer

FDS

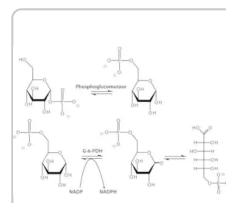
LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

G8876

Glycogen from rabbit liver
≥85% dry basis (enzymatic)



Sigma-Aldrich

P3397

Phosphoglucose isomerase from rabbit muscle
ammonium sulfate suspension, ≥100 units/mg protein

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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.

How is Phosphorylase A, Product P1261, prepared?

To prepare Phosphorylase A (P1261), Sigma uses a method similar to the one described in the J. Biol.Chem., 231, 65 (1958).

What is the final buffer Phosphorylase A, Product P1261, is in prior to lyophilization?

The final buffer Phosphorylase A (P1261) is in prior to lyophilization is 0.1M β-glycerophosphate and 4 mM EDTA.

What is the solubility of Phosphorylase A, Product P1261?

Sigma tests solubility of Phosphorylase A (P1261) in water at a concentration of 1 mg/ml.

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What is the pI of Phosphorylase A, Product P1261?

The pI of Phosphorylase A (P1261) is 5.6 - 5.8.

Has the amino acid sequence of phosphorylase from rabbit muscle been published?

The sequence has been published. The amino acid composition is: Asp51, Asn45, Thr35, Ser29, Glu64, Gln31, Pro36, Gly48, Ala63, Cys9, Val62, Met21, Ile49, Leu79, Tyr36, Phe38, Trp12, Lys48, His22, and Arg63. Reference for the sequence and amino acid composition: K. Titani et al., Proc. Nat. Acad. Sci., USA, 74, 4762-4766 (1977) (see attached pdf). Product P1261 is phosphorylase a, which is the tetrameric form. Products P4649 and P6635 are phosphorylase b, the dimeric form. The sequence information of the subunit would be the same for both forms.

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

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

Glycogen Phosphorylase Structures and Function

Fletterick, R. and S. Sprang

Accounts of Chemical Research, 15, 361-369 (1982)

Inhibition of purified rabbit muscle phosphorylase a and phosphorylase b by polychlorinated biphenyls, polychlorinated biphenylols and polybrominated biphenyls.

R C Mead et al.

Biochimica et biophysica acta, 701(2), 173-179 (1982-02-18)

Polychlorinated biphenyls, polychlorinated biphenylols and polybrominated biphenyls inhibited both rabbit muscle phosphorylase a and phosphorylase b (1,4-alpha-D-glucan:orthophosphate alpha-D-glucosyltransferase, EC 2.4.1.1). The degree of inhibition was dependent upon the

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Ian J Tetlow et al.

The Plant cell, 16(3), 694-708 (2004-02-20)

Protein phosphorylation in amyloplasts and chloroplasts of *Triticum aestivum* (wheat) was investigated after the incubation of intact plastids with gamma-(32)P-ATP. Among the soluble phosphoproteins detected in plastids, three forms of starch branching enzyme (SBE) were phosphorylated in amyloplasts (SBEI, SBEIIa

The phosphorylase b to a converting enzyme of rabbit skeletal muscle.

E G KREBS et al.

Biochimica et biophysica acta, 20(1), 150-157 (1956-04-01)

Versatile high-resolution oligosaccharide microarrays for plant glycobiology and cell wall research

Pedersen H L, et al.

The Journal of biological chemistry, M112-M112 (2012)

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

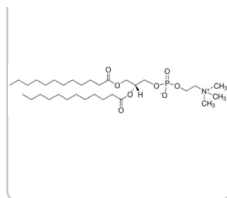
Articles

Insulin Signaling and Energy Homeostasis

Glucose metabolism is regulated by the opposing actions of insulin and glucagon. Insulin is released from pancreatic β cells in response to high blood glucose levels and regulates glucose metabolism through its actions on muscle, liver, and adipose tissue.

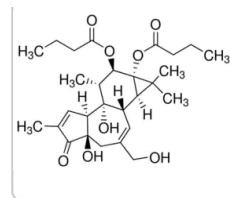
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1,2-Didodecanoyl-*sn*-glycero-3-phosphocholine

≥99%, synthetic

[Consulter le prix et la disponibilité](#)**P1269**

Phorbol 12,13-dibutyrate

≥98% (TLC), powder

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