

Brighten up your lab coat!

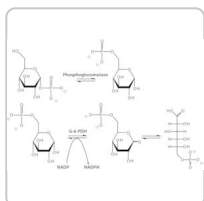
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Saisir le nom du produit, le numéro de lot, etc.



Toutes les
photos (1)

Documents

↓ FDS

🔍 COO/COA

📄 Fiche des
caractéristiques

Plus de
documents »

P3397 ▶ **Sigma-Aldrich.**

Phosphoglucomutase from rabbit muscle

★★★★★ (0)

ammonium sulfate suspension, ≥100 units/mg protein

Synonyme(s):

α-D-Glucose-1,6-bisphosphatase, α-D-Glucose-1-phosphate phosphotransferase

Numéro CAS: **9001-81-4**

Numéro de classification
(Commission des enzymes):

5.4.2.2 (BRENDA, IUBMB)

Numéro MDL: **MFCD00131886**

NACRES:

NA.54

Référence	Conditionnement	Disponibilité		Prix	Quantité	
P3397-200UN	200 UNITS	✓ Only 3 left in stock (more on the way)	Détails...	49,60 €	− +	📘
P3397-500UN	500 UNITS	✓ Only 1 left in stock (more on the way)	Détails...	109,00 €	− +	📘
P3397-1KU	1000 UNITS	✓ Only 1 left in stock (more on the way)	Détails...	224,00 €	− +	📘
P3397-2.5KU	2500 UNITS	✓ Only 4 left in stock (more on the way)	Détails...	443,00 €	− +	📘

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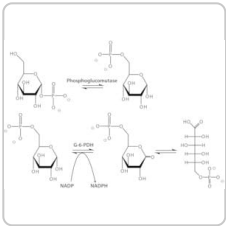
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PRODUITS RECOMMANDÉS



Sigma-Aldrich
SRE0069
Phosphoglucomutase from rabbit muscle

Consulter le prix et la disponibilité



Sigma-Aldrich
P4109
β-Phosphoglucomutase from *Lactococcus* sp.
recombinant, expressed in *E. coli*

Consulter le prix et la disponibilité

PROPRIÉTÉS

Forme	ammonium sulfate suspension
Niveau de qualité	300
specific activity	≥100 units/mg protein
Activité étrangère	lactic dehydrogenase ≤0.5% phosphoglucose isomerase ≤0.01% pyruvate kinase ≤0.05%

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DESCRIPTION

Application

Phosphoglucomutase exchanges a phosphoryl group with the substrate.

Phosphoglycomutase is used to interconvert glucose 1-phosphate to glucose 6-phosphate. It is used to study glycogenesis and phosphoglycomutase deficiency in humans. Product 3397 has been used in phosphoglucomutase assays to study metabolic regulation.

Conditionnement

1000 units in glass bottle

Définition de l'unité

One unit will convert 1.0 μ mole of α -D-glucose 1-phosphate to α -D-glucose 6-phosphate per min at pH 7.4 at 30 °C.

Forme physique

Crystalline suspension in 3.2 M $(\text{NH}_4)_2\text{SO}_4$, pH 6.0 containing 0.01% EDTA

Remarque sur l'analyse

Protein determined by biuret.

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12 - Non Combustible Liquids

WGK

WGK 2

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

Eyeshields, Gloves, multi-purpose combination respirator cartridge (US)

LISTES RÉGLEMENTAIRES

Les listes réglementaires sont principalement fournies pour les produits chimiques. Seules des informations limitées peuvent être fournies ici pour les produits non chimiques. L'absence d'indication signifie qu'aucun des composants n'est répertorié. Il incombe à l'utilisateur de s'assurer de l'utilisation sûre et légale du produit.

Liste des restrictions (Annexe XXII du Règlement REACH de l'UE)CAS No. **7783-20-2****DOCUMENTATION****Certificat d'analyse**

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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

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[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich



Roche

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ARTICLES REVUS PAR DES PAIRS

Phosphoglucomutase; mechanism of action.

V JAGANNATHAN et al.

The Journal of biological chemistry, 179(2), 569-575 (1949-06-01)

Infantile muscle glycogen storage disease: phosphoglucomutase deficiency with decreased muscle and serum carnitine levels.

H Sugie et al.

Neurology, 38(4), 602-605 (1988-04-01)

We report a 5-month-old boy with recurrent vomiting, lethargy, and poor weight gain. He had profound metabolic acidosis and nonketotic dicarboxylic aciduria. The serum and muscle carnitine levels were significantly low (60% and 10% of the control means, respectively), suggesting

Metabolic regulation during early frog development. Identification of proteins labeled by 32P-glycolytic intermediates.

M B Dworkin et al.

The Journal of biological chemistry, 262(35), 17038-17045 (1987-12-15)

When 32P-labeled phosphoenolpyruvate is injected into *Xenopus laevis* oocytes, a 50-60-kDa protein of subunit size Mr 29,000 is rapidly labeled, followed by a second (monomeric) protein of 66 kDa concomitant with the loss of label from the first protein. We

Gene identification in the congenital disorders of glycosylation type I by whole-exome sequencing.

Sharita Timal et al.

Human molecular genetics, 21(19), 4151-4161 (2012-04-12)

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PGM3 mutations cause a congenital disorder of glycosylation with severe immunodeficiency and skeletal dysplasia.

Asbjørg Stray-Pedersen et al.

American journal of human genetics, 95(1), 96-107 (2014-06-17)

Human phosphoglucomutase 3 (PGM3) catalyzes the conversion of N-acetyl-glucosamine (GlcNAc)-6-phosphate into GlcNAc-1-phosphate during the synthesis of uridine diphosphate (UDP)-GlcNAc, a sugar nucleotide critical to multiple glycosylation pathways. We identified three unrelated children with recurrent infections, congenital leukopenia including neutropenia, B

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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.

How to Work with Enzymes Supplied as Ammonium Sulfate Suspensions

Instructions for working with enzymes supplied as ammonium sulfate suspensions

Protocoles

Enzymatic Assay of Phosphoglucomutase (EC 5.4.2.2)

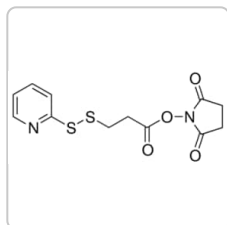
This procedure may be used for all Phosphoglucomutase products except for Phosphoglucomutase, Catalog Number P4109.

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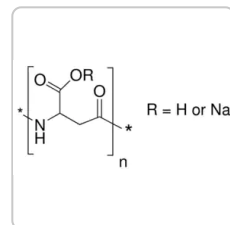
Sigma-Aldrich

P3415

3-(2-Pyridyldithio)propionic acid *N*-hydroxysuccinimide ester

≥95%, powder

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Sigma-Aldrich

P3418

Poly-(α,β)-DL-aspartic acid sodium salt

mol wt 2,000-11,000

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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,

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