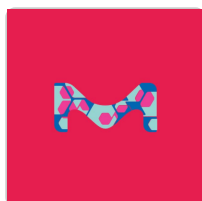


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P2621 ▶ **Sigma-Aldrich.**

Phosphomannose Isomerase from *Escherichia coli*

★★★★★ (0)

recombinant, expressed in *E. coli*, ammonium sulfate suspension, ≥50 units/mg protein

Synonyme(s):

D-Mannose-6-phosphate ketol-isomerase, Mannose Phosphate Isomerase, PMI

Numéro de classification
(Commission des enzymes):

5.3.1.8 (BRENDA, IUBMB)

Numéro MDL:

MFCD00131899

NACRES:

NA.54

Référence	Conditionnement	Disponibilité		Prix	Quantité	
P2621-2MG	2 MG	✓ Only 6 left in stock (more on the way)	Détails...	245,00 €	- +	
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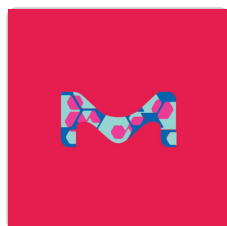
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Sigma-Aldrich

G7877

Glucose-6-phosphate Dehydrogenase from baker's yeast (*S. cerevisiae*)

Type VII, ammonium sulfate suspension, ≥ 200 units/mg protein

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Sigma-Aldrich

MAK099

Glutamate Dehydrogenase (GDH) Activity Assay Kit

sufficient for 100 colorimetric tests

[Consulter le prix et la disponibilité](#)



PROPRIÉTÉS

Recombinant	expressed in <i>E. coli</i>
Niveau de qualité	200
Forme	ammonium sulfate suspension
specific activity	≥ 50 units/mg protein
Temp. de stockage	2-8°C

DESCRIPTION

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alginate biosynthetic enzymes such as phosphomannomutase (PMM), GDP-mannose pyrophosphorylase (GMP), and GDP-mannose dehydrogenase (GMD).

Actions biochimiques/physiologiques

Phosphomannose Isomerase (PMI) catalyses the interconversion of mannose 6-phosphate (Man-6-P) and fructose 6-phosphate (Fru-6-P), which provides a link between glucose metabolism and mannosylation.

Conditionnement

Bottomless glass bottle. Contents are inside inserted fused cone.

Définition de l'unité

One unit will convert 1.0 μ mole of D-mannose 6-phosphate to D-fructose 6-phosphate per min at pH 7.6 at 25 °C, using a coupled enzyme system with phosphoglucose isomerase and glucose-6-phosphate dehydrogenase.

Forme physique

Supplied as a suspension in 3.2 M ammonium sulfate

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

12 - Non Combustible Liquids

WGK

WGK 1

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

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purpose combination

respirator cartridge (US)

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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

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

Numéro de lot

e.g. 023J5431

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Numéro de lot

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Rechercher

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Enzyme Explorer

FDS

ARTICLES REVUS PAR DES PAIRS

Characterization of the *Aspergillus fumigatus* phosphomannose isomerase Pmi1 and its impact on cell wall synthesis and morphogenesis.

Wenxia Fang et al.

Microbiology (Reading, England), 155(Pt 10), 3281-3293 (2009-07-04)

Phosphomannose isomerase (PMI) is an enzyme catalysing the interconversion of mannose 6-phosphate (Man-6-P) and fructose 6-phosphate (Fru-6-P). The reaction catalysed by PMI is the first committed step in the synthesis of mannose-containing sugar chains and provides a link between glucose

Influence of the *Photobacterium luminescens* phosphomannose isomerase gene, *manA*, on mannose utilization, exopolysaccharide structure, and biofilm formation.

Matthew R Amos et al.

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Molecular characterization of a novel thermostable mannose-6-phosphate isomerase from *Thermus thermophilus*.

Soo-Jin Yeom et al.

Biochimie, 93(10), 1659-1667 (2011-07-07)

Mannose-6-phosphate isomerase catalyzes the interconversion of mannose-6-phosphate and fructose-6-phosphate. The gene encoding a putative mannose-6-phosphate isomerase from *Thermus thermophilus* was cloned and expressed in *Escherichia coli*. The native enzyme was a 29 kDa monomer with activity maxima for mannose 6-phosphate at

Mapmi gene contributes to stress tolerance and virulence of the entomopathogenic fungus, *Metarhizium acridum*.

Yueqing Cao et al.

Journal of invertebrate pathology, 108(1), 7-12 (2011-06-21)

Phosphomannose isomerase (PMI) catalyzes the reversible interconversion of fructose 6-phosphate (Fru-6-P) and mannose 6-phosphate (Man-6-P), providing a link between glycolysis and the mannose metabolic pathway. In this study, we identified pmi gene (Mapmi) from the entomopathogenic fungus, *Metarhizium acridum*, and

Alginate biosynthetic enzymes in mucoid and nonmucoid *Pseudomonas aeruginosa*: overproduction of phosphomannose isomerase, phosphomannomutase, and GDP-mannose pyrophosphorylase by overexpression of the phosphomannose isomerase (pmi) gene.

I Sá-Correia et al.

Journal of bacteriology, 169(7), 3224-3231 (1987-07-01)

The specific activities of phosphomannose isomerase (PMI), phosphomannomutase (PMM), GDP-mannose pyrophosphorylase (GMP), and GDP-mannose dehydrogenase (GMD) were compared in a mucoid cystic fibrosis isolate of *Pseudomonas aeruginosa* and in two spontaneous nonmucoid revertants. In both revertants some or all of

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How to Work with Enzymes Supplied as Ammonium Sulfate Suspensions

Instructions for working with enzymes supplied as ammonium sulfate suspensions

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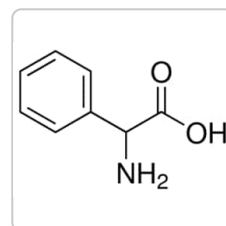
Sigma-Aldrich

P2611

Pectinase from *Aspergillus aculeatus*

aqueous solution, ≥3,800 units/mL

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Sigma-Aldrich

P25507

2-Phenylglycine

95%

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