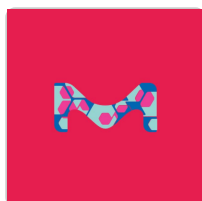


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P4553 ▶ **Sigma-Aldrich.**

6-Phosphogluconic Dehydrogenase from yeast

★★★★★ (0)

lyophilized powder, ≥3.0 units/mg solid

Synonyme(s):

6-Phospho-D-gluconate:NADP⁺ 2-oxidoreductase (decarboxylating), 6-Phosphogluconic Dehydrogenase from yeast

Numéro CAS: **9073-95-4**

Numéro de classification
(Commission des enzymes):

1.1.1.44 (BRENDA, IUBMB)

Numéro MDL: **MFCD00130317**

NACRES:

NA.54

Référence	Conditionnement	Disponibilité	Prix	Quantité
P4553-25UN	25 UNITS	Date d'expédition estimée le 01 novembre 2022	138,00 €	- +

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[Ajouter au panier](#)

PRODUITS RECOMMANDÉS

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PROPRIÉTÉS

Source biologique	yeast
Niveau de qualité	200
Forme	lyophilized powder
specific activity	≥3.0 units/mg solid
Poids mol.	52 kDa
Temp. de stockage	2-8°C

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DESCRIPTION

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Application

6-Phosphogluconic Dehydrogenase from yeast has been used in hexokinase (HK) and xylose reductase (XR) activities in cell lysate.

Conditionnement

25 units in glass bottle

Actions biochimiques/physiologiques

Enzyme activity is determined by measuring the reduction of NAD⁺ or NADP⁺. High levels of NADPH are believed to inhibit the enzyme, while 6-phosphogluconate acts to activate the enzyme.

Définition de l'unité

One unit will oxidize 1.0 μ mole of 6-phospho-D-gluconate to D-ribulose 5-phosphate and CO₂ per min at pH 7.4 at 37 °C in the presence of NADP⁺.

PRODUITS APPARENTÉS

Inhibiteur

I1149

Iodoacetamide, BioUltra

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Iodoacetamide, ≥99% (NMR), crystalline

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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

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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

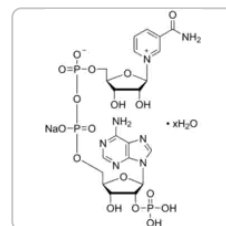


Sigma-Aldrich

P5381

Phosphoglucose Isomerase from baker's yeast (*S. cerevisiae*)

Type III, ammonium sulfate suspension, ≥400 units/mg protein (biuret)



Sigma-Aldrich

N0505

β-Nicotinamide adenine dinucleotide phosphate sodium salt hydrate

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ARTICLES REVUS PAR DES PAIRS

Crystal structure of *Saccharomyces cerevisiae* 6-phosphogluconate dehydrogenase Gnd1

He W, et al.

BMC Structural Biology, 7(1), 38-38 (2007)

6-Phospho-D-gluconate:NAD⁺ 2-oxidoreductase (decarboxylating) from slow-growing *Rhizobia*.

G Martínez-Drets et al.

Journal of bacteriology, 130(3), 1139-1143 (1977-06-01)

6-Phospho-D-gluconate:NAD⁺ 2-oxidoreductase (decarboxylating) (NAD⁺-6PGD) was detected in several slow-growing strains of rhizobia, and no activity involving NADP⁺ was found in the same extracts. By contrast, fast-growing strains of rhizobia had NADP⁺-6PGD activity; most of them also had NAD⁺-6PGD activity. NAD⁺-6PGD

Structure of alpha-conotoxin Bu1A: influences of disulfide connectivity on structural dynamics.

Ai-Hua Jin et al.

BMC structural biology, 7, 28-28 (2007-04-21)

Alpha-conotoxins have exciting therapeutic potential based on their high selectivity and affinity for nicotinic acetylcholine receptors. The spacing between the cysteine residues in alpha-conotoxins is variable, leading to the classification of sub-families. Bu1A is the only alpha-conotoxin containing a 4/4

Enhancement of xylose uptake in 2-deoxyglucose tolerant mutant of *Saccharomyces cerevisiae*

Kahar P, et al.

Journal of Bioscience and Bioengineering, 111(5), 557-563 (2011)

Predominance of gluconate formation from glucose during germination of *Bacillus megaterium* QM B1551 spores.

M Otani et al.

Journal of bacteriology, 167(1), 148-152 (1986-07-01)

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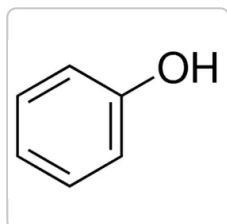


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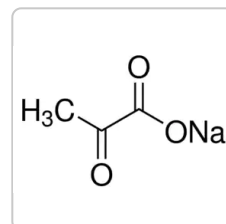
Sigma-Aldrich

P4557

Phenol solution

Equilibrated with 10 mM Tris HCl, pH 8.0, 1 mM EDTA, BioReagent, for molecular biology

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Sigma-Aldrich

P4562

Sodium pyruvate

powder, BioXtra, suitable for mouse embryo cell culture

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Évaluations



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Questions

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