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PK-RO Roche

Pyruvate Kinase (PK)

from rabbit muscle

Synonyme(s):
PK

Numéro de classification
(Commission des enzymes): 2.7.1.40 (BRENDA, IUBMB)

Référence	Conditionnement	Disponibilité	Prix	Quantité
10128155001	1 ML	✓ Only 1 left in stock (more on the way) Détails...	88,80 €	− + i
10128163001	10 ML	✓ Only 2 left in stock (more on the way) Détails...	478,00 €	− + i

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Ajouter au panier

PRODUITS RECOMMANDÉS



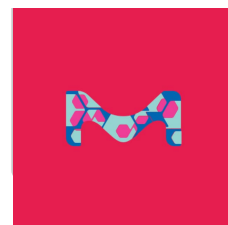
Roche



Sigma-Aldrich

**10109045001****Pyruvate Kinase (PK)**

from rabbit muscle

[Consulter le prix et la disponibilité](#)**P1506****Pyruvate Kinase from rabbit muscle**

Type II, ammonium sulfate suspension, 350-600 units/mg protein

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PROPRIÉTÉS

Source biologique	rabbit muscle
Niveau de qualité	100
Forme	suspension
specific activity	~200 units/mg protein (at 25 °C (500 U/mg at 37 °C) with PEP as the substrate.)
Conditionnement	pkg of 1 mL (10128155001 [10 mg]) pkg of 10 mL (10128163001 [100 mg])
manufacturer/tradename	Roche
pH optimal	7.0-7.5
Expédié(e)s dans	wet ice
Temp. de stockage	2-8°C

Catégories apparentées

Roche® Life Science Products

DESCRIPTION

Description générale

ATP:pyruvate 2-O-phosphotransferase

Pyruvate kinase has a molar mass of 237,000 and exists as a tetramer. Each polypeptide chain of this tetramer has a molar mass of 57,200. The enzyme contains two identical catalytic particles called protomers. Each of these protomers contains two polypeptide chains. Each protomer contains one site each for Mn^{2+} and phosphoenolpyruvate.

Application

Pyruvate kinase has been used to measure ATPase activity and in the determination of adenylate concentration.

Actions biochimiques/physiologiques

Pyruvate kinase catalyzes the irreversible conversion of P-enolpyruvate and ADP to pyruvate and ATP with the utilization of a proton. The first step is the transfer of phosphate group from P-enolpyruvate to ADP with the formation of bound enolate of pyruvate and ATP. In the second step, a proton is added to enolate to generate the keto form of pyruvate. Apart from this, the enzyme exhibits other activities, such as ATP- and bicarbonate-dependent ATPase, phosphorylation of fluoride and hydroxylamine, ATP-dependent phosphorylation of glycolate, and decarboxylation of oxaloacetate.

Qualité

Contaminants: <0.001% GK, <0.002% "NADH oxidase", and ATPase, each, <0.01% enolase, LDH, and myokinase, each

Forme physique

Suspension in 3.2 M ammonium sulfate solution, pH approximately 6

Notes préparatoires

Activator: PK requires Mg^{2+} (or Mn^{2+} , Co^{2+}) and K^+ (or NH_4^+ , Rb^+) for full activity.

Autres remarques

For life science research only. Not for use in diagnostic procedures.

INFORMATIONS SUR LA SÉCURITÉ

**Code de la classe de
stockage**

12 - Non Combustible Liquids

WGK

WGK 1

Flash Point(F)

No data available

Point d'éclair C

No data available

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

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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



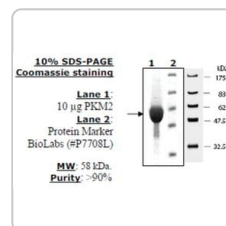
Sigma-Aldrich

MAK072

Pyruvate Kinase Activity Assay Kit

sufficient for 100 colorimetric or fluorometric tests

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Sigma-Aldrich

SRP0189

Pyruvate kinase M2 Active from mouse

recombinant, expressed in *E. coli*, ≥90% (SDS-PAGE)

Consulter le prix et la disponibilité

ARTICLES REVUS PAR DES PAIRS

Long-term sulphur starvation of *Arabidopsis thaliana* modifies mitochondrial ultrastructure and activity and changes tissue energy and redox status.

Monika Ostaszewska et al.

Journal of plant physiology, 171(7), 549-558 (2014-03-25)

Sulphur, as a constituent of amino acids (cysteine and methionine), iron-sulphur clusters, proteins, membrane sulfolipids, glutathione, glucosinolates, coenzymes, and auxin precursors, is essential for plant growth and development. Absence or low sulphur concentration in the soil results in severe growth

Nucleosome sliding by Chd1 does not require rigid coupling between DNA-binding and ATPase domains.

Ilana M Nodelman et al.

EMBO reports, 14(12), 1098-1103 (2013-10-16)

Chromatin remodellers are ATP-dependent motor proteins that physically reposition and reorganize nucleosomes. Chd1 and Iswi-type remodellers possess a DNA-binding domain (DBD) needed for efficient nucleosome mobilization; however, it has not been clear how this domain physically contributes to remodelling. Here

Metabolic control and structure of glycolytic enzymes. 3. Dissociation and subunit structure of rabbit muscle pyruvate kinase.

M A Steinmetz et al.

Biochemistry, 5(4), 1399-1405 (1966-04-01)

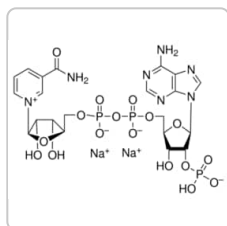
Structure of rabbit muscle pyruvate kinase complexed with Mn^{2+} , K^{+} , and pyruvate.

T M Larsen et al.

Biochemistry, 33(20), 6301-6309 (1994-05-24)

The molecular structure of rabbit muscle pyruvate kinase, crystallized as a complex with Mn^{2+} , K^{+} , and pyruvate, has been solved to 2.9-Å resolution. Crystals employed in the investigation belonged to the space group P1 and had unit cell dimensions a

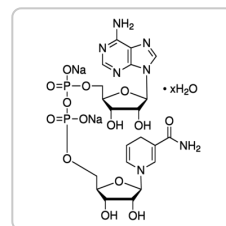
PRODUITS CONSULTÉS RÉCEMMENT



Roche

NADP-RO**NADP**

Disodium salt

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Roche

10128023001**NADH**

Grade II, disodium salt

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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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