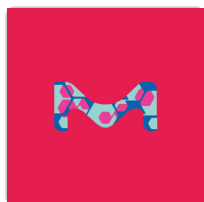


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P1506 ▶ **Sigma-Aldrich.**

Pyruvate Kinase from rabbit muscle

★★★★★ (0)

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

Synonyme(s):

ATP:pyruvate 2-O-phosphotransferase, PK

Numéro CAS: **9001-59-6**

Numéro MDL: **MFCD00081946**

NACRES: NA.54

Numéro de classification
(Commission des enzymes):

2.7.1.40 (BRENDA, IUBMB)

eCl@ss:

32160410

Référence	Conditionnement	Disponibilité	Prix	Quantité
P1506-1KU	1000 UNITS	✓ Only 3 left in stock (more on the way) Détails...	40,50 €	1 2
P1506-5KU	5000 UNITS	✓ Only 5 left in stock (more on the way) Détails...	123,00 €	1 2
P1506-25KU	25000 UNITS	✓ Only 1 left in stock (more on the way) Détails...	479,00 €	1 2
P1506-50KU	50000 UNITS	✓ Only 2 left in stock (more on the way) Détails...	715,00 €	1 2

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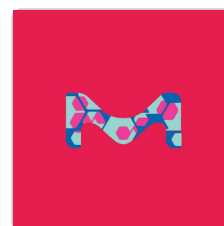
PRODUITS RECOMMANDÉS



Sigma-Aldrich

P9136**Pyruvate Kinase from rabbit muscle**

Type III, lyophilized powder, 350-600 units/mg protein

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

P7768**Pyruvate Kinase from rabbit muscle**

Type VII, buffered aqueous glycerol solution, 350-600 units/mg protein

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Source biologique	rabbit muscle
Niveau de qualité	200
Type	Type II
Forme	ammonium sulfate suspension
specific activity	350-600 units/mg protein

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Activité étrangère

phosphoglucomutase $\leq 0.05\%$

Temp. de stockage

2-8°C

Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

DESCRIPTION

Description générale

Pyruvate kinase from rabbit muscle catalyzes an ATP-dependent phosphorylation of glycolate to yield 2-phosphoglycolate.

Application

Pyruvate kinase from rabbit muscle has been used in a structural study to understand the reaction mechanism of the final step in glycolysis. It has also been used in a study to investigate ATP-dependent phosphorylation of α -substituted carboxylic acids.

Actions biochimiques/physiologiques

Molecular Weight: 237 kDa and exists as a tetramer of four equal subunits of molecular weight 57 kDa.

Isoelectric Point: 7.6

Optimal pH: ~7.5

Optimal Temperature: 25°C

$EA_{280} = 0.54$ for 1 mg(p)/ml, 1 cm path

Reported K_M values are ATP (0.86 mM), pyruvate (10 mM), ADP (0.3 mM), and PEP (0.07 mM) in Tris buffer at pH 7.4 and 30 °C.

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One unit will convert 1.0 μ mole of phospho(enol)pyruvate to pyruvate per min at pH 7.6 at 37 °C.

Forme physique

Suspension in 3.2 M $(\text{NH}_4)_2\text{SO}_4$ solution, pH 6

Remarque sur l'analyse

Protein determined by biuret.

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

12 - Non Combustible Liquids

WGK

WGK 2

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

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.

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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

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

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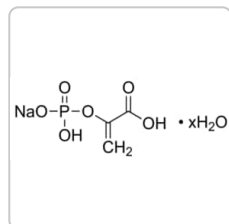
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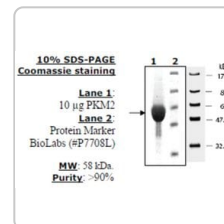
Sigma-Aldrich

P0564

Phospho(enol)pyruvic acid monosodium salt hydrate

≥97% (enzymatic)

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Sigma-Aldrich

SRP0189

Pyruvate kinase M2 Active from mouse

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

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ARTICLES REVUS PAR DES PAIRS

ATP-dependent phosphorylation of alpha-substituted carboxylic acids catalyzed by pyruvate kinase.

D E Ash et al.

Archives of biochemistry and biophysics, 228(1), 31-40 (1984-01-01)

Pyruvate kinase from rabbit muscle catalyzes an ATP-dependent phosphorylation of glycolate to yield 2-phosphoglycolate (F. J. Kayne (1974) *Biochem. Biophys. Res. Commun.* 59, 8-13). An investigation of analogous reactions with other alpha-substituted carboxylic acids reveals several new substrates for such

Inhibitory effect of Zn²⁺ on rabbit muscle pyruvate kinase and reactivation by histidine.

Tamaki N.

J. Nutr. Sci. Vitaminol., 27, 107-116 (1981)

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Pyruvate kinase from rabbit muscle has been cocrystallized as a complex with MgIIATP, oxalate, Mg²⁺, and either K⁺ or Na⁺. Crystals with either Na⁺ or K⁺ belong to the space group P2(1)2(1)2(1), and the asymmetric units contain two tetramers. The

A Novel Allosteric Inhibitor of Phosphoglycerate Mutase 1 Suppresses Growth and Metastasis of Non-Small-Cell Lung Cancer.

Ke Huang et al.

Cell metabolism, 30(6), 1107-1119 (2019-10-15)

Phosphoglycerate mutase 1 (PGAM1) plays a pivotal role in cancer metabolism and tumor progression via its metabolic activity and interaction with other proteins like α -smooth muscle actin (ACTA2). Allosteric regulation is considered to be an innovative strategy to discover a

Human liver type pyruvate kinase: complete amino acid sequence and the expression in mammalian cells.

K Tani et al.

Proceedings of the National Academy of Sciences of the United States of America, 85(6), 1792-1795 (1988-03-01)

Pyruvate kinase (PK) has four isozymes (L, R, M1, M2) that are encoded by two different genes. Among these isozymes, abnormalities of liver (L)-type PK is considered to be associated with hereditary nonspherocytic hemolytic anemia in humans. We isolated and

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Articles

How to Work with Enzymes Supplied as Ammonium Sulfate Suspensions

Instructions for working with enzymes supplied as ammonium sulfate suspensions

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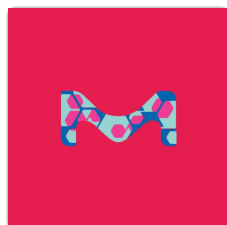
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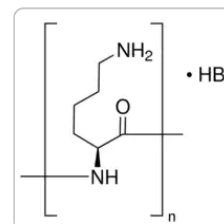
Sigma-Aldrich

P1512

Thermolysin from *Geobacillus stearothermophilus*

Type X, lyophilized powder, 30-350 units/mg protein (E1%/280)

Consulter le prix et la disponibilité



Sigma-Aldrich

P1524

Poly-L-lysine hydrobromide

mol wt ≥300,000

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Évaluations



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