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HKG6PDH-RO Roche

Hexokinase/Glucose-6-Phosphate Dehydrogenase (HK/G6P-DH)

from yeast/*Leuconostoc*, overproducer

Synonyme(s):

G6P-DH, Glucose-6-Phosphate DehydrogenaseHK, Hexokinase

Référence	Conditionnement	Disponibilité	Prix	Quantité
10127825001	5 ML	 Date d'expédition estimée le 03 octobre 2022 Détails...	206,00 €	- + 
10737275001	10 ML	 Date d'expédition estimée le 03 octobre 2022 Détails...	335,00 €	- + 

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PRODUITS RECOMMANDÉS



Sigma-Aldrich



Roche

**H8629****Hexokinase and Glucose-6-phosphate Dehydrogenase from baker's yeast...**lyophilized powder, hexokinase ≥ 65 units/mg protein, glucose-6-phosphate dehydrogenase ≥ 75 units/mg...[Consulter le prix et la disponibilité](#)**11426362001****Hexokinase (HK)**

suspension, suitable for detection

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PROPRIÉTÉS

Source biologique yeast

Niveau de qualité 100

Forme suspension

Conditionnement pkg of 10 mL (10737275001 [30 mg])
pkg of 5 mL (10127825001 [15 mg])

manufacturer/tradename Roche

Expédié(e)s dans wet ice

Temp. de stockage 2-8°C

Catégories apparentées

Roche® Life Science Products

DESCRIPTION

Description générale

Hexokinase is responsible for catalyzing the first step of glycolysis. It results in the formation of glucose-6-phosphate and ADP from glucose and ATP. Glucose-6-phosphate dehydrogenase is a crucial enzyme in the pentose phosphate pathway. It is responsible for the conversion of glucose-6-phosphate and NADP⁺ (nicotinamide adenine dinucleotide phosphate) to 6-phosphogluconolactone and NADPH.

Application

Hexokinase/Glucose-6-phosphate dehydrogenase has been used for the determination of plasma glucose levels.

Composants

EC 2.7.1.1 & 1.1.1.49

Définition de l'unité

One unit (U) HK will phosphorylate 1 μmol of D-glucose in one minute at +25 °C and pH 7.6.

One unit (U) G6P-DH will oxidize 1 μmol of glucose-6-phosphate in one minute at +25 °C and pH 7.6.

The coupled assay produces 1 μmol of NADH per μmol of D-glucose phosphorylated.

Volume Activity: 340 U hexokinase/ml at +25 °C with glucose and ATP as the substrates. 170 U glucose-6-phosphate dehydrogenase/ml at +25 °C with glucose-6-phosphate as the substrate

Forme physique

Suspension in 3.2 M ammonium sulfate solution, pH approximately 6. Prepared by mixing hexokinase with G6P-DH. HK:G6P-DH approximately 2:1 with regard to protein content.

Autres remarques

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

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

12 - Non Combustible Liquids

WGK

WGK 1

Flash Point(F)

does not flash

Point d'éclair C

does not flash

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

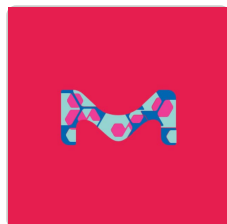
Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

Comment saisir un numéro de lot (COO)

Rechercher

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

H6380

Hexokinase from *Saccharomyces cerevisiae*

lyophilized powder, ≥ 350 units/mg protein, Protein $\geq 10\%$ by biuret

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Sigma-Aldrich

MAK091

Hexokinase Colorimetric Assay Kit

sufficient for 100 colorimetric tests

Consulter le prix et la disponibilité

ARTICLES REVUS PAR DES PAIRS

Inhibition of early apoptotic events by Akt/PKB is dependent on the first committed step of glycolysis and mitochondrial hexokinase.

K Gottlob et al.

Genes & development, 15(11), 1406-1418 (2001-06-08)

The serine/threonine kinase Akt/PKB is a major downstream effector of growth factor-mediated cell survival. Activated Akt, like Bcl-2 and Bcl-xL, prevents closure of a PT pore component, the voltage-dependent anion channel (VDAC); intracellular acidification; mitochondrial hyperpolarization; and the decline in

GLUCOMANNAN AND GLUCOMANNAN PLUS SPIRULINA-ENRICHED SQUID-SURIMI ADDED TO HIGH SATURATED DIET AFFECT GLYCEMIA, PLASMA AND ADIPOSE LEPTIN AND ADIPONECTIN LEVELS IN GROWING FA/FA RATS.

Miguel Vázquez-Velasco et al.

Nutricion hospitalaria, 32(6), 2718-2724 (2015-12-17)

Type 2 diabetes is a very prevalent chronic disease. Among dietary factors for its prevention and treatment, interest has grown in satiating fibre (konjac glucomannan) and spirulina. Our previous studies suggest that glucomannan itself and/or in conjunction to spirulina displayed

Glycolysis inhibition for anticancer treatment.

H Pelicano et al.

Oncogene, 25(34), 4633-4646 (2006-08-08)

Most cancer cells exhibit increased glycolysis and use this metabolic pathway for generation of ATP as a main source of their energy supply. This phenomenon is known as the Warburg effect and is considered as one of the most fundamental

Glucose-6-phosphate dehydrogenase, NADPH, and cell survival.

Robert C Stanton

IUBMB life, 64(5), 362-369 (2012-03-21)

Glucose-6-phosphate dehydrogenase (G6PD) is the rate-limiting enzyme of the pentose phosphate pathway. Many scientists think that the roles and regulation of G6PD in physiology and pathophysiology have been well established as the enzyme was first identified 80 years ago. And

PRODUITS CONSULTÉS RÉCEMMENT



Roche

GDH-RO

Glycerol-3-Phosphate Dehydrogenase (GDH)

from rabbit muscle



Roche

BGALA-RO

β-Glucuronidase/Arylsulfatase

from *Helix pomatia*

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