HK3/Hexokinase-3 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P74881
Synonyms:	Hexokinase-3; HK III; Hexokinase-C; HK3
Species:	Human
Source:	Sf9 insect cells
Accession:	P52790 (M1-V923)
Gene ID:	3101
Molecular Weight:	Approximately 115 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 50 mM Tris, 100 mM Nacl, pH 7.4, 25% glycerol, 0.5 mM PMSF, 0.1 mM EDTA, 0.5 mM GSH.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	The HK3 protein, also known as Hexokinase-3, plays a crucial role in glycolysis by catalyzing the phosphorylation of hexoses, including D-glucose and D-fructose, to form hexose 6-phosphates such as D-glucose 6-phosphate and D-fructose 6-phosphate, respectively. This enzyme mediates the initial and rate-limiting step of glycolysis, facilitating the conversion of D-glucose to D-glucose 6-phosphate. Through this enzymatic activity, HK3 contributes to the entry of glucose into the glycolytic pathway, a fundamental process in cellular energy metabolism. The phosphorylation of hexoses by HK3 is essential for subsequent metabolic pathways and energy production within the cell.

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