

Recombinant Human Hexokinase-3/HK3 Protein (His & GST Tag)

Catalog No. PKSH030376

Note: Centrifuge before opening to ensure complete recovery of vial contents.

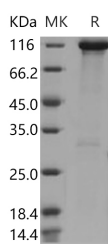
Description

Synonyms	HKIII;HXK3
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Val 923
Accession	P52790
Calculated Molecular Weight	127 kDa
Observed molecular weight	115 kDa
Tag	N-His-GST
Bioactivity	Not validated for activity

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as sterile solution of 50mM Tris, 100mM NaCl, pH 7.4
Reconstitution	Not Applicable

Data



> 85 % as determined by reducing SDS-PAGE.

Background

Hexokinase-3, also known as Hexokinase type III, HKIII and HK3, is a protein which belongs to the hexokinase family. Hexokinase-3 / HK3 is an enzyme which in humans is encoded by the HK2 gene. Hexokinases phosphorylate glucose to produce glucose 6-phosphate, committing glucose to the glycolytic pathway. In mammalian tissues hexokinase exists as four isoenzymes encoded by distinct genes. These proteins are homologous and are organized in two homologous domains, with the exception of hexokinase type IV which has only one. This organization is believed to be the result of a duplication and tandem fusion event involving the gene encoding for the ancestral hexokinase. The gene encodes

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hexokinase-3. Similar to hexokinases-1 and hexokinases-2, this allosteric enzyme is inhibited by its product glucose 6-phosphate.