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

Catalog Number: PKSH030376

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

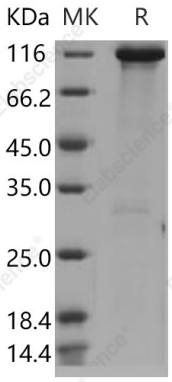
Description

Species	Human
Source	Baculovirus-Insect Cells-derived Human Hexokinase-3/HK3 protein Met 1-Val 923, with an N-terminal His & GST
Calculated MW	127 kDa
Observed MW	115 kDa
Accession	P52790
Bio-activity	Not validated for activity

Properties

Purity	> 85% as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
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 50 mM Tris, 100 mM NaCl, pH 7.4

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 thehexokinase family. Hexokinase-3/HK3 is anenzymewhich in humans is encoded by theHK2gene. Hexokinases phosphorylate glucoseto produceglucose 6-phosphate, committing glucose to theglycolytic 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 hexokinase-3. Similar to hexokinases-1 and hexokinases-2, thisallostericenzyme is inhibited by its product glucose 6-phosphate.