

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

Catalog Number: PKSH030376

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

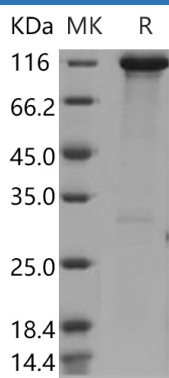
Description

| | |
|----------------------|---|
| 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 50mM Tris, 100mM 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 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 hexokinase-3. Similar to hexokinases-1 and hexokinases-2, this allosteric enzyme is inhibited by its product glucose 6-phosphate.

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