

Datasheet for ABIN7196087
HK3 Protein (GST tag,His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	HK3
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HK3 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Human Hexokinase-3/HK3 Protein (His & GST Tag)
Sequence:	Met 1-Val 923
Characteristics:	A DNA sequence encoding the human HK3 (P52790) (Met 1-Val 923) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	HK3
Alternative Name:	Hexokinase-3/HK3 (HK3 Products)
Background:	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-

Target Details

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.

Synonym: HKIII;H XK3

Molecular Weight: 127 kDa

UniProt: [P52790](#)

Pathways: [Carbohydrate Homeostasis](#), [Warburg Effect](#)

Application Details

Restrictions: For Research Use only

Handling

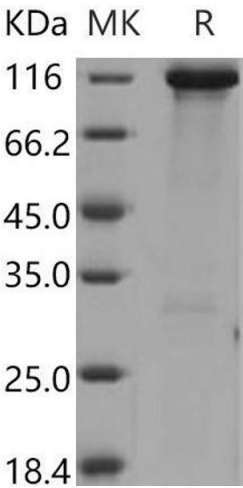
Format: Frozen, Liquid

Buffer: Supplied as sterile 50 mM Tris, 100 mM NaCl, pH 7.4

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Images



Western Blotting

Image 1.