

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

Cat.NO.: TP08397

3th Edition

Synonyms:HKIII;HXK3

Description: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.

Form:PBS

Molecular Weight:127 kDa

Sequences:Met 1-Val 923

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.