

Human recombinant protein Hexokinase 1
Human Recombinant Hexokinase 1
Catalog # PBV10547r**Specification****Human recombinant protein Hexokinase 1 - Product info**

Primary Accession	P19367
Concentration	1
Calculated MW	104.6 kDa KDa

Human recombinant protein Hexokinase 1 - Additional Info

Gene ID	3098
Gene Symbol	HXK1

Other Names

Hexokinase type I, Brain form hexokinase, HK1.

Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	N/A;
Recombinant	Yes
Sequence	MGSSHHHHHH SSGLVPRGSH MIAAQLLAYY FTELKDDQVK KIDKYLYAMR LSETLIDIM TRFRKEMKNG LSRDFNPTAT VKMLPTFVRS IPDGSEKGDF IALDLGGSSF RILRVQVNHE KNQNVHMESE VYDTPENIVH GSGSQLFDHV AECLGDFMEK RKIKDKKLPV GFTFSFPCQQ SKIDEAILIT WTKRFKASGV EGADVVKLLN KAIKKRGDYD ANIVAVVNDT VGTMMTCGYD DQHCEVGLII GTGTNACYPE ELRHIDLVEG DEGRMCINTE WGAFGDDGSL EDIRTEFDRE IDRGSLNPGK QLFKEMVSGM YLGELVRLIL VKMAKEGLLF EGRITPELLT RGKFNTSDVS AIEKNKEGLH NAKEILTRLG VEPSDDDCVS VQHVCTIVSF RSANLVAATL GAILNRLRDN KGTPLRLTTV GVDGSLYKTH PQYSRRFHKT LRLVLPDSDV RFLLESSESGS KGAAMVTAVA YRLAEQHRQI EETLAHFHLT KDMILLEVKKR MRAEMELGLR KQTHNNAVVK MLPSFVRRTTP DGTENGDFLA LDLGGTNFRV LLVKIRSGKK RTVEMHNKIY AIPIEIMQGT GEELFDHIVS CISDFLDYMG IKGPRMPLGF TFSFPCQQTS LDAGILITWT KGFKATDCVG HDVVTLRDA IKRREEFDLD VVAVVNDTVG TMMTCAYEEP TCEVGLIVGT GSNACYMEEM KNVEMVEGDQ GQMCINMEWG AFGDNGCLDD IRTHYDRLVD EYSLNAGKQR YEKMISGMYL GEIVRNILID FTKKGFLFRG QISETLKTRG IFETKFLSQI ESDRLALLQV RAILQQLGLN STCDDSDILVK

TVCGVVSRR AQLCGAGMAA VVDKIRENRG
LDRLNVTGV DGTLYKLHPH FSRIMHQTVK
ELSPKCNVSF LLEDGSGKG AALITAVGVR
LRTEASS

Format
Liquid

Storage
-80°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.

Human recombinant protein Hexokinase 1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human recombinant protein Hexokinase 1 - Images

Human recombinant protein Hexokinase 1 - Background

Hexokinase is the first enzyme in the glycolytic pathway, catalyzing the transfer of a phosphoryl group from ATP to glucose to form glucose-6-phosphate and ADP. In vertebrates there are four major glucose-phosphorylating isoenzymes, designated hexokinase I, II, III, and IV. This enzyme is found in most cells, but there is tissue specificity for the particular type of hexokinase. Hexokinase1 is found in the adipose tissue and liver and encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this hexokinase1 have been associated with hemolytic anemia due to hexokinase deficiency.

Human recombinant protein Hexokinase 1 - References

Nishi S., et al. Biochem. Biophys. Res. Commun. 157:937-943(1988).
Ruzzo A., et al. Biochem. J. 331:607-613(1998).
Deloukas P., et al. Nature 429:375-381(2004).
Andreoni F., et al. Biochim. Biophys. Acta 1493:19-26(2000).
Murakami K., et al. Blood 90:272-272(1998).