

Product datasheet

Recombinant human Hexokinase II protein (Active)
ab235131

1 Image

Description

Product name	Recombinant human Hexokinase II protein (Active)	
Biological activity	Specific activity is > 40,000 pmol/min/µg. One unit will convert 1 pmoles of D-Glucose to D-Glucose-6-phosphate per minute at pH 8.0 at 37°C.	
Purity	> 90 % SDS-PAGE. ab235131 was purified using conventional chromatography techniques.	
Endotoxin level	< 1.000 Eu/µg	
Expression system	Escherichia coli	
Accession	P52789	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	<p>MGSSHHHHHHSSGLVPRGSHMIASHLLAYFFTELNHD QVQKVDQLYHMR LSDETLLEISKRFKEMEKGLGATTHPTAAVKMLPTFV RSTPDGTEHGEF LALDLGGTNFRVLWVKVTDNGLQKVE MENQYAIPEDI MRGSGTQLFDHI AECLANFMDKLQIKDKKPLGFTFSFPCHQTKLDESFL VSWTKGFKSSGV EGRDVVALIRKAIQRRGDFDIDVAVVNDTVGTMMTCG YDDHNCEIGLIV GTGSNACYMEEMRHIDMVEGDEGRMCINMEWGAFGD DGSLNDIRTEFDQE IDMGSLNPGKQLFEKMISGMYMGELVRLILVKMAKEEL LFGGKLSPELLN TGRFETKDISDIEGEKDGIRKAREVLMRLGLDPTQEDC VATHRICQIVST RSASLCAATLAAVLQRIKENKGEERLRSTIGVDG SVYK KHPHFAKRLHKT VRRLLVPGCDVRFLRSEDGSGKGAAMVTAVAYRLADQ HRARQKTLEHLQLS</p>	

HDQLLEVKRRMKVEMERGLSKETHASAPVKMLPTYV
CATPDGTEKGDFLA
LDLGGTNFRVLLVVRNGKWGGVEMHNKIYAIPQEV
HGTGDELFDHIVQ
CIADFLEYMGMGVSLPLGFTFSFPCQQNSLDESILLK
WTKGFKASGCEG
EDVVTLLKEAIHRREEFDLDVVAVVNDTVGTMTCGF
EDPHCEVGLVGT
GSNACYMEEMRNVELVEGEEGRMCVNMEWGAFGDN
GCLDDFRTEFDVAVD
ELSLNPGKQRFKEMISGMYLGEMRNILIDFTKRGLLFRG
RISERLKTRG
IFETKFLSQIESDCLALLQVRAILQHLGLESTCDDSI
VKE
VCTVARRA
AQLCGAGMAAVVDRIENRGLDALKVTVGVDGTYKL
HPHFAKVMHETVK
DLAPKCDVSFLQSEDGSGKGAALITAVACRIREAGQR

Predicted molecular weight	105 kDa including tags
Amino acids	1 to 917
Tags	His tag N-Terminus
Additional sequence information	NP_000180.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab235131** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Liquid

Preparation and Storage

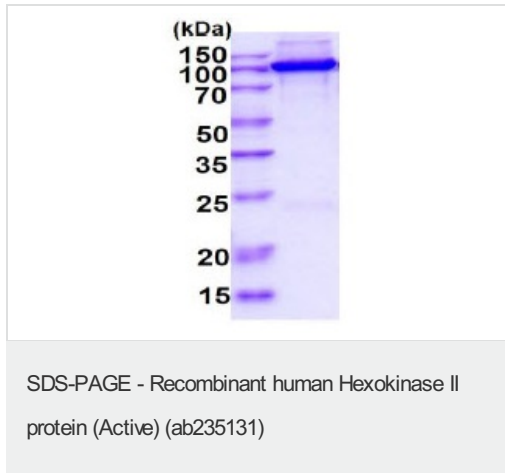
Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.32% Tris HCl, 10% Glycerol, 0.58% Sodium chloride, 0.002% PMSF This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

Tissue specificity	Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle.
Pathway	Carbohydrate metabolism; hexose metabolism.
Sequence similarities	Belongs to the hexokinase family. Contains 2 hexokinase domains.

Domain	The N- and C-terminal halves of this hexokinase show extensive sequence similarity to each other. The catalytic activity is associated with the C-terminus while regulatory function is associated with the N-terminus. Each domain can bind a single glucose and Gluc-6-P molecule.
Cellular localization	Mitochondrion outer membrane. Its hydrophobic N-terminal sequence may be involved in membrane binding.

Images



15% SDS-PAGE analysis of 3 µg ab235131.

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