

EIF3K Protein, Human, Recombinant (His & GST)

General Information

Synonyms:	PRO1474;eukaryotic translation initiation factor 3, subunit K;HSPC029;PLAC-24;EIF3S12;M9;PLAC24;ARG134;PTD001;MSTP001;EIF3-p28
Protein Construction:	A DNA sequence encoding the human EIF3K (Q9UBQ5) (Ala2-Gln218) was expressed the N-terminal polyhistidine-tagged GST tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q9UBQ5
Molecular Weight:	52.8 kDa (predicted); 47 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 500 mM Nacl, 3 mM DTT, pH 7.4, 10% glycerol. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

EIF3K is a member of the eIF3 subunit K family. It is a component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 4S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA_i and eIF-5 to form the 43S preinitiation complex (43S PIC). It stimulates mRNA recruitment to the 43S PIC and scanning

of the mRNA for AUG recognition. EIF3K is universally expressed in human tissues. It is distributed both in nucleus and cytoplasm. EIF3K is the smallest subunit of eIF3 and it interacts with a number of other subunits of eIF3 and the 4S ribosomal subunit.

Reference

- Rual JF. et al., 2005, Nature. 437 (7062): 1173-8.
Shen X. et al., 2004, FEBS Lett. 573 (1-3): 139-46.
Wei Z. et al., 2004, J Biol Chem. 279 (33): 34983-90.

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