Human EIF3K Protein (His & GST Tag)

Catalog Number: **14553-H20B**

General Information

Gene Name Synonym:

ARG134; EIF3-p28; EIF3S12; HSPC029; M9; MSTP001; PLAC-24; PLAC24; PRO1474; PTD001

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.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Met

Molecular Mass:

The secreted recombinant human EIF3K consists of 454 amino acids and predicts a molecular mass of 52.8 KDa. The apparent molecular mass of the protein is approximately 47 Kda in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM Nacl, 3mM DTT, pH 7.4, 10% glycerol

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

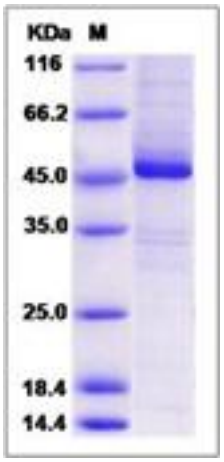
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi 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 40S ribosomal subunit.

References

1.Rual JF. et al., 2005, Nature. 437 (7062): 1173-8. 2.Shen X. et al., 2004, FEBS Lett. 573 (1-3): 139-46. 3.Wei Z. et al., 2004, J Biol Chem. 279 (33): 34983-90.