

## Recombinant Human EEF2 protein, His-tagged

Cat. No. EEF2-258H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human EEF2(574-858 aa) fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	574-858 a.a.
<b>Description</b>	Eukaryotic Translation Elongation Factor 2 (EEF2) which is necessary factor for protein synthesis is a part of the GTP-binding translation elongation factor family. EEF2 catalyzes the GTP-dependent ribosomal translocation step during translation elongation. EEF2 is also catalyzes the coordinated movement of the mRNA as well as the 2 tRNA molecules and conformational changes in the ribosome. EF-2 kinase phosphorylation inactivates the EEF2 protein.
<b>Form</b>	The EEF2 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.
<b>Molecular Mass</b>	34.3kDa
<b>AA Sequence</b>	MGSSHHHHHH SSSLVPRGSH MGSDPVVSYR ETVSEESNVL CLSKSPNKHN RLYMKARPPF DGLAEDIDKG EVSARQELKQ RARYLAEKYE WDVAEARKIW CFGPDGTGPN ILTDITKGVQ YLNEIKDSVV AGFQWATKEG ALCEENMRGV RFDVHDVTLH ADAIHRGGGQ IIPTARRCLY ASVLTAQPRL MEPIYLVEIQ

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CPEQVGGIY GVLNRKRGHV FEESQVAGTP MFVVKAYLPV NESFGFTADL  
RSNTGGQAFP QCVFDHWQIL PGDPFDNSSR PSQVVAETRK RKGLKEGIPA  
LDNFLDKL.

**Purity** Greater than 90% as determined by SDS-PAGE.

**Storage** Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** [EEF2 eukaryotic translation elongation factor 2 \[ Homo sapiens \]](#)

**Official Symbol** [EEF2](#)

**Synonyms** EEF2; eukaryotic translation elongation factor 2; EF2; elongation factor 2; EEF 2; polypeptidyl tRNA translocase; polypeptidyl-tRNA translocase; EF-2; EEF-2;

**Gene ID** [1938](#)

**mRNA Refseq** [NM\\_001961](#)

**Protein Refseq** [NP\\_001952](#)

**MIM** [130610](#)

**UniProt ID** [P13639](#)

**Chromosome Location** 19pter-q12

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**Pathway**

AMPK signaling, organism-specific biosystem; Eukaryotic Translation Elongation, organism-specific biosystem; Gene expression, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Peptide chain elongation, organism-specific biosystem; Translation, organism-specific biosystem; Translation Factors, organism-specific biosystem;

**Function**

GTP binding; GTPase activity; nucleotide binding; translation elongation factor activity;

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