

Recombinant Human EEF2 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human EEF2(574-858 aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	574-858 a.a.
Description	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.
Form	The EEF2 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.
Molecular Mass	34.3kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSDPVVSyr ETVSEESNVL CLSKSPNKHNL RLYMKARFPF DGLAEDIDKG EVSARQELKQ RARYLAEKYE WDVAEARKIW CFGPDGTGPN ILTDITKGVQ YLNEIKDSVV AGFQWATKEG ALCEENMRGV RFDVHDTVTLH ADAIHRGGGQ IPTARRCLY ASVLTAQPRL MEPIYLVEIQ

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CPEQVVGGIY 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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