

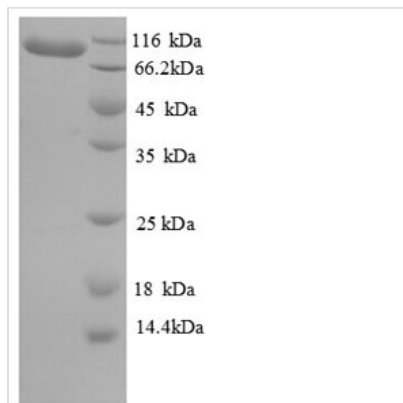


Recombinant Human Elongation factor 2 (EEF2)

Product Code	CSB-EP007434HU
Relevance	Catalyzes the GTP-dependent ribosomal translocation step during translation elongation. During this step, the ribosome changes from the pre-translocational (PRE) to the post-translocational (POST) state as the newly formed A-site-bound peptidyl-tRNA and P-site-bound deacylated tRNA move to the P and E sites, respectively. Catalyzes the coordinated movement of the two tRNA molecules, the mRNA and conformational changes in the ribosome.
Abbreviation	Recombinant Human EEF2 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P13639
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	VNFTVDQIRAIMDKKANIRNMSVIAHVDHGKSTLTDSLVCAGIISARAGETRF TDTRKDEQERCITIKSTALSFYELSENDLNFQSKDGAGFLINLIDSPGHVDFS SEVTAALRVTDGALVVVDCVSGVCVQTETVLRQAIAERIKPVLMMNKMMDRALL ELQLEPEELYQTFQRIVENVNVIISTYGESESGPMGNIMIDPVLGTVGFGSGLH GWAFTLKQFAEMYVAKFAAKGEGQLGPAERAKKVEDMMKKLWGDYFDPAN GKFSKSATSPEGKKLPRTFCQLLDPIFKVFDAIMNFKKEETAKLIEKLDIKLSE DKDKEGKPLLKAVMRRWLPAGDALLQMITIHLPSVTAQKYRCCELLYEGPPDD EAAMGIKSCDPKGPLMMYISKMVPTSDKGRFYAFGRVFSGLVSTGLKVRIMGP NYTPGKKEDLYLKPIQRTILMMGRYVEPIEDVPCGNIVGLVGVDQFLVKTGTITT FEHAHNMRVMKFSVSPVVRVAVEAKNPADLPKLVEGLKRLAKSDPMVQCIIEE SGEHIIAGAGELHLEICLDLEEDHACIPIKKSDDPVVSRETSEESNVLCCLSKS PNKHNRLYMKARFPDGLAEDIDKGEVSARQELKQRRARYLAKEYEWDVAEAR KIWCFGPDGTGPNILTDITKGVQYLNEIKDSVVAGFQWATKEGALCEENMRGV RFDVHDVTLHADAIHRGGGQIPTARRCLYASVLTAPRLMEPIYLVEIQCPPEQ VVGGIYGVNLNRKRGHVFEESSQVAGTPMFVVKAYLPVNESFGFTADLRNTGG QAFFQCVFDHWQILPGDPFDNSSRPSQVVAETRRKRLKEGIPALDNFLDKL
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	EEF2
Expression Region	2-858aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged



Mol. Weight	99.2kDa
Protein Length	Full Length of Mature Protein

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The expression region of this recombinant Human EEF2 covers amino acids 2-858. This EEF2 protein is expected to have a theoretical molecular weight of 99.2 kDa. The EEF2 protein was expressed in e.coli. The EEF2 gene fragment has been modified by fusing the N-terminal 6xHis tag, providing convenience in detecting and purifying the recombinant EEF2 protein during the following stages.

Human elongation factor 2 (EEF2) is a crucial protein involved in the process of translation during protein synthesis. It plays a central role in the elongation phase, where it facilitates the movement of tRNA and mRNA through the ribosome. EEF2 functions by promoting the translocation of the ribosome along the mRNA, allowing the addition of amino acids to the growing polypeptide chain. This GTPase activity of EEF2 is essential for the accurate and efficient synthesis of proteins. Beyond its primary role in translation, EEF2 has been implicated in cellular processes such as apoptosis and regulation of gene expression. Research on EEF2 contributes to the understanding of fundamental cellular mechanisms and can provide insights into diseases related to aberrant protein synthesis.

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
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