# Recombinant Human Elongation factor 1-delta (EEF1D)

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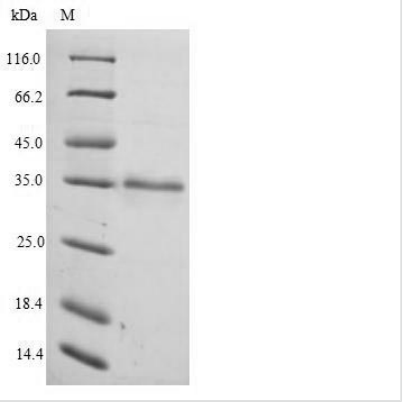
| **Product Code** | CSB-EP007431HU |
| **Relevance** | Isoform 1: EF-1-beta and EF-1-delta stimulate the exchange of GDP bound to EF-1-alpha to GTP, regenerating EF-1-alpha for another round of transfer of aminoacyl-tRNAs to the ribosome.Isoform 2: Regulates induction of heat-shock-responsive genes through association with heat shock transcription factors and direct DNA-binding at heat shock promoter elents (HSE). |
| **Abbreviation** | Recombinant Human EF1D 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.** | P29692 |
| **Alias** | Antigen NY-CO-4 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | Greater than 90% as determined by SDS-PAGE. |
| **Sequence** | ATNFLAHEKIWFDKFKYDDAERRFYEQMNGPVAGASRQENGASVILRDIARAR ENIQKSLAGSSGPGASSGTSGDHGELVVRIASLEVENQSLRGVVQELQQAISK LEARLNVLEKSSPGHRATAPQTQHVSPMRQVEPPAKKPATPAEDDEDDDIDLF GSDNEEEDKEAAQLREERLRQYAEKKAKKPALVAKSSILLDVKPWDDETDMA QLEACVRSIQLDGLVWGASKLVPVGYGIRKLQIQCVVEDDKVGTDLLEEEITKF EEHVQSVDIAAFNKI |
| **Research Area** | Epigenetics and Nuclear Signaling |
| **Source** | E.coli |
| **Target Names** | EEF1D |
| **Expression Region** | 2-281aa |
| **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** | 35.0kDa |
| **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 EF1D covers amino acids 2-281. The calculated molecular weight for this EF1D protein is 35 kDa. This EF1D recombinant protein is manufactured in e.coli. The EF1D gene fragment has been modified by fusing the N-terminal 6xHis tag, providing convenience in detecting and purifying the recombinant EF1D protein during the following stages.

Human elongation factor 1-delta (EEF1D) is a protein involved in protein synthesis, playing a crucial role in the elongation phase of translation. It is a subunit of the eukaryotic elongation factor 1 complex, which delivers aminoacyl-tRNA to the ribosome during mRNA translation. EEF1D specifically interacts with aminoacyl-tRNA and facilitates the accurate and efficient addition of amino acids to the growing polypeptide chain. Beyond its primary role in translation, EEF1D has been implicated in diverse cellular processes, including cytoskeletal organization, apoptosis, and regulation of gene expression. Its multifunctional nature highlights its significance in maintaining cellular homeostasis and suggests potential implications in various cellular pathways.

## 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.

## Shelf Life

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.