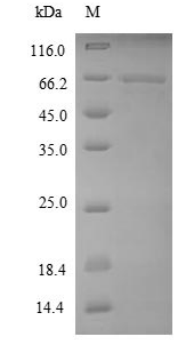
Recombinant Human Elongation factor 1-alpha 1 (EEF1A1)

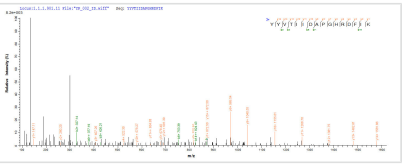
Product Code	CSB-EP007409HU
Relevance	This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis. With PARP1 and TXK, forms a complex that acts as a T helper 1 (Th1) cell-specific transcription factor and binds the promoter of IFN-gamma to directly regulate its transcription, and is thus involved importantly in Th1 cytokine production.
Abbreviation	Recombinant Human EEF1A1 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.	P68104
Alias	Elongation factor Tu
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MGKEKTHINIVVIGHVDSGKSTTTGHLIYKCGGIDKRTIEKFEKEAAEMGKGSFK YAWVLDKLKAERERGITIDISLWKFETSKYYVTIIDAPGHRDFIKNMITGTSQAD CAVLIVAAGVGEFEAGISKNGQTREHALLAYTLGVKQLIVGVNKMDSTEPPYSQ KRYEEIVKEVSTYIKKIGYNPDTVAFVPISGWNGDNMLEPSANMPWFKGWKVT RKDGNASGTTLLEALDCILPPTRPTDKPLRLPLQDVYKIGGIGTVPVGRVETGV LKPGMVVTFAPVNVTTEVKSVEMHHEALSEALPGDNVGFNVKNVSVKDVRRG NVAGDSKNDPPMEAAGFTAQVIILNHPGQISAGYAPVLDCHTAHIACKFAELKE KIDRRSGKKLEDGPKFLKSGDAAIVDMVPGKPMCVESFSDYPPLGRFAVRDM RQTVAVGVIKAVDKKAAGAGKVTKSAQKAQKAK
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	EEF1A1
Protein Names	Recommended name: Elongation factor 1-alpha 1 Short name= EF-1-alpha-1Alternative name(s): Elongation factor Tu Short name= EF-Tu Eukaryotic elongation factor 1 A-1 Short name= eEF1A-1 Leukocyte receptor cluster member 7
Expression Region	1-462aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged

Mol. Weight	66.1kDa
Protein Length	Full Length

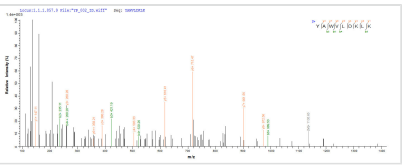
Image



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP007409HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) EEF1A1.



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Description

The Human EEF1A1 protein's gene (1-462aa) is inserted into a plasmid vector, forming recombinant plasmid, which is introduced into e.coli cells. e.coli cells surviving in the presence of a specific antibiotic are selected and then cultured under conditions promoting the expression of the gene of interest. The protein features a N-terminal 6xHis-SUMO tag fusion. After expression, the recombinant Human EEF1A1 protein is isolated and purified from the cell lysate through affinity purification. Denaturing SDS-PAGE is utilized to resolve the resulting recombinant protein, revealing a purity exceeding 90%.

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

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