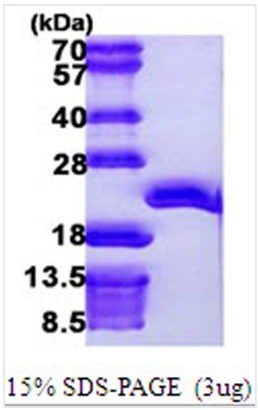
EEF1E1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	EEF1E1, Recombinant Protein
Full Product Name	EEF1E1, 1-174aa, Human, His tag, E Coli
Product Gene Name	EEF1E1 recombinant protein
Product Synonym Names	Eukaryotic translation elongation factor 1 epsilon-1; AIMP3; P18
Sequence	MGSSHHHHHH SSGLVPRGSH MAAAAELSLL EKSLGLSKGN KYSAQGERQI PVLQTNNGPS LTGLTTIAAH LVKQANKEYL LGSTAEEKAI VQQWLEYRVT QVDGHSSKND IHTLLKDLNS YLEDKVYLTG YNFTLADILL YYGLHRFIVD LTVQEKEKYL NVSRWFCHIQ HYPGIRQHLS SVVFIKNRLY TNSH
Host	E Coli
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT
Purity/Purification	> 95% by SDS-PAGE
Concentration	1.0 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	21.9 kDa (194aa) confirmed by MALDI-TOF
OMIM	AB011079 mRNA
3D Structure	ModBase 3D Structure for O43324
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for EEF1E1 recombinant protein	Cell Cycle
Applications Tested/Suitable for EEF1E1 recombinant protein	SDS-PAGE
Related Product Information for EEF1E1 recombinant protein	EEF1E1, also known as, eukaryotic translation elongation factor 1 epsilon-1, shares sequence similarity with the amino-terminal ends of the Beta and Gamma subunits of EF-1. By specifically interacting with MetRS, this protein binds to a macromolecular tRNA synthtase complex that catalyzes the ligation of specific amino acids to their cognate tRNAs. upon DNA damage, it translocates to the nucleus where it interacts with ATM and ATR, resulting in p53 activation. Recombinant human EEIF1E1 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product References and Citations for EEF1E1 recombinant protein	Quevillon S. et al. (1996) FEBS Lett. 395: 63-67.; Norcum MT. et al. (1991) J Biol Chem. 266:15398-405
Other Notes	Small volumes of EEF1E1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EEF1E1 purchase	MBS204081 is a recombinant protein targeting EEF1E1. Also known as EEF1E1, 1-174aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of EEF1E1 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EEF1E1. It may not necessarily be applicable to this product.

NCBI GI #	4758862
NCBI GeneID	9521
NCBI Accession #	NP_004271
UniProt Primary Accession #	O43324
UniProt Secondary Accession #	Q5THS2; C9JLK5
UniProt Related Accession #	O43324
GenBank Nucleotide #	NM_004280.4
NCBI Official Full Name	eukaryotic translation elongation factor 1 epsilon-1 isoform 1
NCBI Official Synonym Full Names	eukaryotic translation elongation factor 1 epsilon 1
NCBI Official Symbol	EEF1E1
NCBI Official Synonym Symbols	P18; AIMP3
UniProt Protein Name	Eukaryotic translation elongation factor 1 epsilon-1
UniProt Synonym Protein Names	Aminoacyl tRNA synthetase complex-interacting multifunctional protein 3; Elongation factor p18; Multisynthase complex auxiliary component p18
Protein Family	Eukaryotic translation elongation factor
UniProt Gene Name	EEF1E1
NCBI Protein Information	eukaryotic translation elongation factor 1 epsilon-1
NCBI Summary for EEF1E1	This gene encodes a multifunctional protein that localizes to both the cytoplasm and nucleus. In the cytoplasm, the encoded protein is an auxiliary component of the macromolecular aminoacyl-tRNA synthase complex. However, its mouse homolog has been shown to translocate to the nucleus in response to DNA damage, and it plays a positive role in ATM/ATR-mediated p53 activation. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the neighboring downstream MUTED (muted homolog) gene. An EEF1E1-related pseudogene has been identified on chromosome 2. [provided by RefSeq, Dec 2010]
UniProt Comments for EEF1E1	Positive modulator of ATM response to DNA damage.
Research Articles on EEF1E1	**1.** LmnA binds AIMP3 via its extreme C-terminus. Together these findings provide a structural insight for understanding the interaction between AIMP3 and LmnA in AIMP3 degradation.

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