

Recombinant Human EEF1E1, His-tagged

Cat. No. EEF1E1-27130TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, (amino acids 1-174) of Human AIMP3/p18 with N terminal His tag; 194 amino acids, 21.9 kDa.
Species	Human
Source	E.coli
ProteinLength	174 amino acids
Description	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.
Conjugation	HIS
Molecular Weight	21.900kDa inclusive of tags
Tissue specificity	Down-regulated in various cancer tissues.
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.58% Sodium chloride, 0.02% DTT
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMAAAAEELSLEKSLGLSKGN KYSAQGERQIPVLQT NNGPSLTGLTTIAAHLVKQANKEYL LGSTAEKAIVQQWLEYRVTQVDGHSSKNDIH TLLKDLNS YLEDKVYLTGYNFTLADILLYYGLHRFIVDLTVQEKEKYL NVSRWFCHIQ HYPGIRQHLSSVVFIGNRLYTNSH
Sequence Similarities	Contains 1 GST C-terminal domain.

GENE INFORMATION

Gene Name	EEF1E1 eukaryotic translation elongation factor 1 epsilon 1 [Homo sapiens]
Official Symbol	EEF1E1
Synonyms	EEF1E1; eukaryotic translation elongation factor 1 epsilon 1; P18; eukaryotic translation elongation factor 1 epsilon-1; AIMP3; aminoacyl tRNA synthetase complex interacting multifunctional protein 3;
Gene ID	9521
mRNA Refseq	NM_001135650
Protein Refseq	NP_001129122

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MIM	609206
Uniprot ID	O43324
Chromosome Location	6p24.3
Pathway	Cytosolic tRNA aminoacylation, organism-specific biosystem; Gene Expression, organism-specific biosystem; tRNA Aminoacylation, organism-specific biosystem;

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