Recombinant Human ETF1

Cat. No. ETF1-28695TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human eRF1 with N terminal proprietary tag; Predicted MW 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	Termination of protein biosynthesis and release of the nascent polypeptide chain are signaled by the presence of an in-frame stop codon at the aminoacyl site of the ribosome. The process of translation termination is universal and is mediated by protein release factors (RFs) and GTP. A class 1 RF recognizes the stop codon and promotes the hydrolysis of the ester bond linking the polypeptide chain with the peptidyl site tRNA, a reaction catalyzed at the peptidyl transferase center of the ribosome. Class 2 RFs, which are not codon specific and do not recognize codons, stimulate class 1 RF activity and confer GTP dependency upon the process. In prokaryotes, both class 1 RFs, RF1 and RF2, recognize UAA; however, UAG and UGA are decoded specifically by RF1 and RF2, respectively. In eukaryotes, eRF1, or ETF1, the functional counterpart of RF1 and RF2, functions as an omnipotent RF, decoding all 3 stop codons (Frolova et al.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	TEEEKILYLTPEQEKDKSHFTDKETGQEHELIESMPLLEWFANNYKKFGATLEIVTDK SQEGSQFVKGFGGIGGILRYRVDFQGMEYQGGDDEFFDLDDY
Sequence Similarities	Belongs to the eukaryotic release factor 1 family.

GENE INFORMATION

Gene Name	ETF1 eukaryotic translation termination factor 1 [Homo sapiens]
Official Symbol	ETF1
Synonyms	ETF1; eukaryotic translation termination factor 1; ERF, ERF1, SUP45L1; eukaryotic peptide chain release factor subunit 1; eRF1; polypeptide chain release factor 1; RF1; sup45 (yeast omnipotent suppressor 45) homolog like 1; TB3 1;
Gene ID	2107
mRNA Refseq	NM_004730
Protein Refseq	NP_004721
MIM	600285
Uniprot ID	P62495

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Chromosome Location	5q31.2
Pathway	Eukaryotic Translation Termination, organism-specific biosystem; Gene Expression, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of RNA, organism-specific biosystem; Metabolism of mRNA, organism-specific biosystem;
Function	RNA binding; protein binding; ribosome binding; translation release factor activity; translation release factor activity, codon specific;

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