

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	<p>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.</p>
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 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	TEEEKILYLTPEQEKDKSHFTDKETGQEHIELIESMPLLEWFANNYKKFGATLEIVTDK SQEGSQFVKGFGGIGGILRYRVDFQGMHEYQGGDDEFFDLDDY
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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