Leucyl/Phenylalanyl-Trna--Protein Transferase (aat) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Leucyl/phenylalanyl-tRNA--protein transferase (aat), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Leucyl/phenylalanyl-tRNA--protein transferase (aat)
Product Gene Name	aat recombinant protein
Sequence	MRLVQLSRHS IAFPSPEGAL REPNGLLALG GDLSPARLLM AYQRGIFPWF SPGDPILWWS PDPRAVLWPE SLHISRSMKR FHKRSPYRVT MNYAFGQVIE GCASDREEGT WITRGVVEAY HRLHELGHAH SIEVWREDEL VGGMYGVAQG TLFCGESMFS RMENASKTAL LVFCEEFIGH GGKLIDCQVL NDHTASLGAC EIPRRDYLNY LNQMRLGRLP NNFWVPRCLF SPQE
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	26,619 Da
Sequence Positions	1-234, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P0A8P1
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for aat recombinant protein	MBS1222669 is a recombinant protein targeting aat. Also known as Recombinant Escherichia coli Leucyl/phenylalanyl-tRNA--protein transferase (aat). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of aat 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.

ADDITIONAL DETAILS

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

NCBI GI #	16128852
NCBI GeneID	945490
NCBI Accession #	NP_415405.1
UniProt Primary Accession #	P0A8P1
UniProt Secondary Accession #	P23885
GenBank Nucleotide #	NC_000913.3

NCBI Official Full Name	leucyl/phenylalanyl-tRNA-protein transferase
NCBI Official Symbol	aat
NCBI Official Synonym Symbols	ECK0876; JW0868; ycaA
UniProt Protein Name	Leucyl/phenylalanyl-tRNA--protein transferase
UniProt Synonym Protein Names	L/F-transferase; Leucyltransferase; Phenyalanyltransferase
Protein Family	Leucyl/phenylalanyl-tRNA--protein transferase
UniProt Gene Name	aat
UniProt Synonym Gene Names	ycaA
NCBI Protein Information	leucyl/phenylalanyl-tRNA-protein transferase
NCBI Summary for aat	L/F-transferase (Aat) attaches leucine and phenylalanine to exposed amino-terminal arginines and lysines on proteins. [More information is available at EcoCyc: EG11112].
UniProt Comments for aat	Functions in the N-end rule pathway of protein degradation where it conjugates Leu, Phe and, less efficiently, Met from aminoacyl-tRNAs to the N-termini of proteins containing an N-terminal arginine or lysine.
Research Articles on aat	**1.** Data suggest that L/F transferase does not directly participate in the chemistry of peptide bond formation but catalyzes the reaction by binding and orientating the substrates for reaction in an analogous mechanism that has been described for ribosomes.
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