Valine--Trna Ligase (valS) Chlorobium Tepidum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Valine--tRNA ligase (valS), Recombinant Protein
Full Product Name	Recombinant Chlorobium tepidum Valine--tRNA ligase (valS), partial
Product Gene Name	valS recombinant protein
Product Synonym Gene Name	valS
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	102,951 Da
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 Q8KC74
Species	Chlorobium tepidum (strain 49652 / DSM 12025 / TLS)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for valS recombinant protein	MBS1417515 is a recombinant protein targeting valS. Also known as Recombinant Chlorobium tepidum Valine--tRNA ligase (valS), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of valS 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 valS. It may not necessarily be applicable to this product.

NCBI GI #	21674370
NCBI GeneID	1006076
NCBI Accession #	NP_662435.1
UniProt Primary Accession #	Q8KC74
UniProt Related Accession #	Q8KC74
GenBank Nucleotide #	NC_002932.3
NCBI Official Full Name	valyl-tRNA synthetase
NCBI Official Symbol	valS
UniProt Protein Name	Valine--tRNA ligase

UniProt Synonym Protein Names	Valyl-tRNA synthetase
UniProt Gene Name	valS
UniProt Synonym Gene Names	ValRS
NCBI Protein Information	valyl-tRNA synthetase
UniProt Comments for valS	Catalyzes the attachment of valine to tRNA(Val). As ValRS can inadvertently accommodate and process structurally similar amino acids such as threonine, to avoid such errors, it has a "posttransfer" editing activity that hydrolyzes mischarged Thr-tRNA(Val) in a tRNA-dependent manner.
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