Valine--Trna Ligase (Vals), Partial (valS) Methanothermobacter Thermautotrophicus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Valine--tRNA ligase (valS), partial, Recombinant Protein
Full Product Name	Recombinant Methanothermobacter thermautotrophicus Valine--tRNA ligase (valS), partial
Product Gene Name	valS recombinant protein
Product Synonym Gene Name	valS; MTH_767
Product Synonym Names	Valine--tRNA ligase; EC=6.1.1.9; Valyl-tRNA synthetase; ValRS
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	100,946 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 O26861
Species	Methanothermobacter thermautotrophicus (strain 29096 / DSM 1053 / JCM 10044 / NBRC 100330 / Delta H) (Methanobacterium thermoautotrophicum)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for valS recombinant protein	MBS1244724 is a recombinant protein targeting valS. Also known as Recombinant Methanothermobacter thermautotrophicus 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 #	15678792
NCBI GeneID	1471175
NCBI Accession #	NP_275909.1
UniProt Primary Accession #	O26861
GenBank Nucleotide #	NC_000916.1
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	MTH_767; ValRS
UniProt Entry Name	SYV_METTH
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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