Valine--Trna Ligase (valS) Natronomonas Pharaonis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Valine--tRNA ligase (valS), Recombinant Protein
Full Product Name	Recombinant Natronomonas pharaonis 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	99,041 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 Q3IUE5
Species	Natronomonas pharaonis (strain DSM 2160 / 35678)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for valS recombinant protein	MBS1353736 is a recombinant protein targeting valS. Also known as Recombinant Natronomonas pharaonis 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 #	499641140
NCBI Accession #	WP_011321874.1
UniProt Primary Accession #	Q3IUE5
GenBank Nucleotide #	WP_011321874.1
NCBI Official Full Name	valine--tRNA ligase
UniProt Protein Name	Valine--tRNA ligase
UniProt Synonym Protein Names	Valyl-tRNA synthetase
UniProt Gene Name	valS
UniProt Synonym Gene Names	ValRS

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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