D-Alanine Aminotransferase (dat) Staphylococcus Aureus Recombinant Protein

PRODUCT OVERVIEW

Product Name	D-alanine aminotransferase (dat), Recombinant Protein
Full Product Name	Recombinant Staphylococcus aureus D-alanine aminotransferase (dat)
Product Gene Name	dat recombinant protein
Product Synonym Gene Name	dat
Sequence	MEKIFLNGEF VSPSEAKVSY NDRGYVFGDG IYEYIRVYNG KLFTVTEHYE RFLRSANEIG LDLNYSVEEL IELSRKLVDM NQIETGAIYI QATRGVAERN HSFPTPEVEP AIVAYTKSYD RPYDHLENGV NGVTVEDIRW LRCDIKSLNL LGNVLAKEYA VKYNAVEAIQ HRGETVTEGS SSNAYAIKDG VIYTHPINNY ILNGITRIVI KKIAEDYNIP FKEETFTVDF LRNADEVIVS STSAEVTPVI KLDGEPVNDG KVGPITRQLQ EGFEKYIESH SI
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	31,922 Da
Sequence Positions	1-282, 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 Q8NW24
Species	Staphylococcus aureus (strain MW2)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dat recombinant protein	MBS1333423 is a recombinant protein targeting dat. Also known as Recombinant Staphylococcus aureus D-alanine aminotransferase (dat). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dat 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 dat. It may not necessarily be applicable to this product.

NCBI GI #	446333232
NCBI Accession #	WP_000411087.1
UniProt Primary Accession #	Q8NW24
GenBank Nucleotide #	WP_000411087.1
NCBI Official Full Name	MULTISPECIES: D-alanine aminotransferase

UniProt Protein Name	D-alanine aminotransferase
UniProt Synonym Protein Names	D-amino acid aminotransferase; D-amino acid transaminase; DAAT; D-aspartate aminotransferase
Protein Family	D-alanine aminotransferase
UniProt Gene Name	dat
UniProt Synonym Gene Names	DAAT
UniProt Comments for dat	Acts on the D-isomers of alanine, leucine, aspartate, glutamate, aminobutyrate, norvaline and asparagine. The enzyme transfers an amino group from a substrate D-amino acid to the pyridoxal phosphate cofactor to form pyridoxamine and an alpha-keto acid in the first half-reaction. The second half-reaction is the reverse of the first, transferring the amino group from the pyridoxamine to a second alpha-keto acid to form the product D-amino acid via a ping-pong mechanism. This is an important process in the formation of D-alanine and D-glutamate, which are essential bacterial cell wall components ().
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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