N-Succinylglutamate 5-Semialdehyde Dehydrogenase (astD) Shigella Flexneri Recombinant Protein

PRODUCT OVERVIEW

Product Name	N-succinylglutamate 5-semialdehyde dehydrogenase (astD), Recombinant Protein
Full Product Name	Recombinant Shigella flexneri N-succinylglutamate 5-semialdehyde dehydrogenase (astD)
Product Gene Name	astD recombinant protein
Product Synonym Gene Name	astD
Sequence	MTLWINGDWI TGQGASRVKR NPVSGEVLWQ GNDADAAQVE QACRAARAAF PRWARLSLAE RQVVVERFAG LLESNKAELT AIIARETGKP RWEAATEVTA MINKIAISIK AYHVRTGEQR SEMPDGAASL RHRPHGVLAV FGPYNFPGHL PNGHIVPALL AGNTIIFKPS ELTPWSGEAV MRLWQQAGLP PGVLNLVQGG RETGQALSAL EDLDGLLFTG SANTGYQLHR QLSGQPEKIL ALEMGGNNPL IIDEVADIDA AVHLTIQSAF VTAGQRCTCA RRLLLKSGAQ GDAFLASLVA VSQRLTPGNW DDEPQPFIGG LISEQAAQQV VTAWQQLEAM GGRTLLAPRL LQAGTSLLTP GIIEMTGVGG VPDEEVFGPF LRVWRYDTFD EAIRMANNTR FGLFCGLVSP EREKFDQLLL EARAGIVNWN KPLTGAASTA PFGGIGASGN HRPSAWYAAD YCAWPMASLE SDSLTLPATL NPGLDFSDEV VR
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	53,012 Da
Sequence Positions	1-492, 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 Q7UCI7
Species	Shigella flexneri
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for astD recombinant protein	MBS1321019 is a recombinant protein targeting astD. Also known as Recombinant Shigella flexneri N-succinylglutamate 5-semialdehyde dehydrogenase (astD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of astD 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 astD. It may not necessarily be applicable to this product.

NCBI GI #	344915265
NCBI GeneID	1024647
NCBI Accession #	NP_707366.3

UniProt Primary Accession #	Q7UCI7
UniProt Secondary Accession #	Q83L51
GenBank Nucleotide #	NC_004337.2
NCBI Official Full Name	aldehyde dehydrogenase
NCBI Official Symbol	SF1480
UniProt Protein Name	N-succinylglutamate 5-semialdehyde dehydrogenase
UniProt Synonym Protein Names	Succinylglutamic semialdehyde dehydrogenase
Protein Family	N-succinylglutamate 5-semialdehyde dehydrogenase
UniProt Gene Name	astD
UniProt Synonym Gene Names	SGSD
NCBI Protein Information	aldehyde dehydrogenase
UniProt Comments for astD	Catalyzes the NAD-dependent reduction of succinylglutamate semialdehyde into succinylglutamate.
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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