Aspartate--Trna Ligase, Cytoplasmic (DARS) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Aspartate--tRNA ligase, cytoplasmic (Dars), Recombinant Protein
Full Product Name	Recombinant Mouse Aspartate--tRNA ligase, cytoplasmic (Dars)
Product Gene Name	Dars recombinant protein
Product Synonym Gene Name	Dars
Sequence	MPSTNASRKG QEKPREIVDA AEDYAKERYG ISSMIQSQEK PDRVLVRVKD LTVQKADDVV WVRARVHTSR AKGKQCFLVL RQQQFNVQAL VAVGDHASKQ MVKFAANINK ESIIDVEGVV RKVNQKIGSC TQQDVELHVQ KIYVISLAEP RLPLQLDDAI RPEVEGEEDG RATVNQDTRL DNRVIDLRTS TSQAIFRLQS GICHLFRETL INKGFVEIQT PKIISAASEG GANVFTVSYF KNNAYLAQSP QLYKQMCICA DFEKVFCIGP VFRAEDSNTH RHLTEFVGLD IEMAFNYHYH EVVEEIADTL VQIFKGLQER FQTEIQTVSK QFPCEPFKFL EPTLRLEYCE ALAMLREAGV EMDDEEDLST PNEKLLGRLV KEKYDTDFYV LDKYPLAVRP FYTMPDPRNP KQSNSYDMFM RGEEILSGAQ RIHDPQLLTE RALHHGIDLE KIKAYIDSFR FGAPPHAGGG IGLERVTMLF LGLHNVRQTS MFPRDPKRLT P
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	57,147 Da
Sequence Positions	1-501, 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 Q922B2
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Dars recombinant protein	Aspartyl-tRNA synthetase (DARS) is part of a multienzyme complex of aminoacyl-tRNA synthetases. Aspartyl-tRNA synthetase charges its cognate tRNA with aspartate during protein biosynthesis.
Other Notes	Small volumes of Dars 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.
Searchable Terms for Dars purchase	MBS1347790 is a recombinant protein targeting Dars. Also known as Recombinant Mouse Aspartate--tRNA ligase, cytoplasmic (Dars). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Dars. It may not necessarily be applicable to this product.

NCBI GI #	211065507

NCBI GeneID	226414
NCBI Accession #	NP_803228.2
UniProt Primary Accession #	Q922B2
UniProt Secondary Accession #	Q3U987
UniProt Related Accession #	Q922B2
GenBank Nucleotide #	NM_177445.5
NCBI Official Full Name	aspartate--tRNA ligase, cytoplasmic isoform 1
NCBI Official Synonym Full Names	aspartyl-tRNA synthetase
NCBI Official Symbol	Dars
NCBI Official Synonym Symbols	5730439G15Rik
UniProt Protein Name	Aspartate--tRNA ligase, cytoplasmic
UniProt Synonym Protein Names	Aspartyl-tRNA synthetase; AspRS
UniProt Gene Name	Dars
UniProt Synonym Gene Names	AspRS
NCBI Protein Information	aspartate--tRNA ligase, cytoplasmic
UniProt Comments for Dars	Catalyzes the specific attachment of an amino acid to its cognate tRNA in a 2 step reaction: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to the acceptor end of the tRNA.
Research Articles on Dars	**1.** Study provides an in-depth characterization of the DARS tissue distribution in mice revealing surprising heterogeneity across brain regions and neural cell types, addresses the paucity of knowledge around Dars gene expression, cell and systems physiology and associated pathophysiology related to the leukodystrophy Hypomyelination with Brain stem and Spinal cord involvement and Leg spasticity.
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