Deoxyhypusine Synthase (DHPS) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Deoxyhypusine synthase (Dhps), Recombinant Protein
Full Product Name	Recombinant Mouse Deoxyhypusine synthase (Dhps)
Product Gene Name	Dhps recombinant protein
Product Synonym Gene Name	Dhps
Sequence	MEGTPPGAAP SSALAAVLKH SSALPPESAQ VQGYDFNRGV DYHALLDAYR TTGFQATNFG RAVQQVNAMI EKKLEPLAVD EDHHADLTQS RRPLTGCTIF LGYTSNLISS GIRETIRYLV QHNMVDVLVT TAGGVEEDLI KCLAPTYLGE FSLRGKELRE SGINRIGNLL VPNDNYCKFE DWLMPILDQM VLEQNTEGVK WTPSKMISRL GKEINNPDSV YYWAHKNHIP VLSPALTDGS LGDMIFFHSY KNPGLVLDIV EDLRLINTQA IFAKRSGMII LGGGVVKHHI ANANLMRNGA DYAVYINTAQ EFDGSDSGAR PDEAVSWGKI RMDAQPVKVY ADASLVFPLL VAETFAQKAD AFRAEKNED
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	40,642 Da
Sequence Positions	1-369, 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 Q3TXU5
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Dhps recombinant protein	The unusual amino acid hypusine is formed posttranslationally and is only found in a single cellular protein, eukaryotic translation initiation factor 5A. In the first step of hypusine biosynthesis, deoxyhypusine synthase catalyzes the NAD-dependent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the EIF5A precursor protein to form the intermediate deoxyhypusine residue. This gene consists of nine exons spanning 6.6 kb. Three transcript variants have been isolated. However, only transcript variant 1 encodes an active protein. The shorter variants may act as modulating factors of DHPS activity.
Other Notes	Small volumes of Dhps 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 Dhps purchase	MBS1336218 is a recombinant protein targeting Dhps. Also known as Recombinant Mouse Deoxyhypusine synthase (Dhps). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	87252720
NCBI GeneID	330817
NCBI Accession #	NP_001034603.1
UniProt Primary Accession #	Q3TXU5
UniProt Secondary Accession #	E9QM48
UniProt Related Accession #	Q3TXU5
GenBank Nucleotide #	NM_001039514.1
NCBI Official Full Name	deoxyhypusine synthase
NCBI Official Synonym Full Names	deoxyhypusine synthase
NCBI Official Symbol	Dhps
NCBI Official Synonym Symbols	Dhs
UniProt Protein Name	Deoxyhypusine synthase
UniProt Gene Name	Dhps
UniProt Synonym Gene Names	DHS
NCBI Protein Information	deoxyhypusine synthase
UniProt Comments for Dhps	Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue.
Research Articles on Dhps	**1.** Deletion of hypusine modification enzymes (deoxyhypusine synthase and deoxyhypusine hydroxylase)exerts strong phenotypes. eIF-5A2-deleted animals are viable and fertile.
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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