Alkyldihydroxyacetonephosphate Synthase, Peroxisomal (AGPS) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Alkyldihydroxyacetonephosphate synthase, peroxisomal (Agps), Recombinant Protein
Full Product Name	Recombinant Mouse Alkyldihydroxyacetonephosphate synthase, peroxisomal (Agps)
Product Gene Name	Agps recombinant protein
Product Synonym Gene Name	Agps
Sequence	KARRAASAAG ASPAATPAAP ESGTIPKKRQ EVMKWNGWGY NDSKFLLNKK GQVELTGKRY PLSGLVLPTL RDWIQNTLGV SLEHKTTSKT SINPSEAPPS IVNEDFLQEL KEARISYSQE ADDRVFRAHG HCLHEIFLLR EGMFERIPDI VVWPTCHDDV VKIVNLACKY NLCIIPIGGG TSVSYGLMCP ADETRTIISL DTSQMNRILW VDENNLTAHV EAGITGQDLE RQLKESGYCT GHEPDSLEFS TVGGWISTRA SGMKKNIYGN IEDLVVHMKM VTPRGVIEKS SQGPRMSTGP DIHHFIMGSE GTLGVITEAT IKIRPTPEYQ KYGSVAFPNF EQGVACLREI AKQRCAPASI RLMDNQQFQF GHALKPQVSS IFTSFLDGLK KFYITKFKGF DPNQISVATL LFEGDREKVL QHEKQVYDIA AKFGGLAAGE DNGQRGYLLT YVIAYIRDLG LEYYVIGESF ETSAPWDRVI DLCRNVKERI RRECKERGVQ FAPLSTCRVT QTYDAGACIY FYFAFNYRGI SDPLTVFEHT EAAAREEILA NGGSLSHHHG VGKIRKQWLK ESISDVGFGM LKSVKEYVDP SNIFGNRNLL
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	71,684 Da
Sequence Positions	46-645, 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 Q8C0I1
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Agps recombinant protein	This gene is a member of the FAD-binding oxidoreductase transferase type 4 family. It encodes a protein that catalyzes the second step of ether lipid biosynthesis in which acyl-dihydroxyacetonephosphate (DHAP) is converted to alkyl-DHAP by the addition of a long chain alcohol and the removal of a long-chain acid anion. The protein is localized to the inner aspect of the peroxisomal membrane and requires FAD as a cofactor. Mutations in this gene have been associated with rhizomelic chondrodysplasia punctata, type 3 and Zellweger syndrome.
Other Notes	Small volumes of Agps 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 Agps purchase	MBS1332023 is a recombinant protein targeting Agps. Also known as Recombinant Mouse Alkyldihydroxyacetonephosphate synthase, peroxisomal (Agps). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	295444834
NCBI GeneID	228061
NCBI Accession #	NP_766254.2
UniProt Primary Accession #	Q8C0I1
UniProt Related Accession #	Q8C0I1
GenBank Nucleotide #	NM_172666.3
NCBI Official Full Name	alkyldihydroxyacetonephosphate synthase, peroxisomal
NCBI Official Synonym Full Names	alkylglycerone phosphate synthase
NCBI Official Symbol	Agps
NCBI Official Synonym Symbols	bs2; Adas; Adps; Adaps; Adhaps; Aldhpsy; AW123847; 5832437L22; 9930035G10Rik
UniProt Protein Name	Alkyldihydroxyacetonephosphate synthase, peroxisomal
UniProt Synonym Protein Names	Alkylglycerone-phosphate synthase
Protein Family	Alkyldihydroxyacetonephosphate synthase
UniProt Gene Name	Agps
UniProt Synonym Gene Names	Alkyl-DHAP synthase
NCBI Protein Information	alkyldihydroxyacetonephosphate synthase, peroxisomal
UniProt Comments for Agps	Catalyzes the exchange of an acyl for a long-chain alkyl group and the formation of the ether bond in the biosynthesis of ether phospholipids.
Research Articles on Agps	**1.** Linkage analysis mapped the bs2 locus to mouse chromosome 2
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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