



Recombinant Human Alkyldihydroxyacetonephosphate synthase, peroxisomal (AGPS)

Product Code	CSB-YP001457HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O00116
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	KA RRAASAATAA PTATPAAQES GTIPKKRQEV MKWNGWGYND SKFIFNKKGQ IELTGKRYPL SGMGLPTFKE WIQNTLGVNV EHKTTSKASL NPSDTPPSV NEDFLHDLKE TNISYSQEAD DRVFRAHGHC LHEIFLLREG MFERIPDIVL WPTCHDDVVK IVNLACKYNL CIIPIGGGTS VSYGLMCPAD ETRTIISLDT SQMNRILWVD ENNLTAHVEA GITGQELERQ LKESGYCTGH EPDSLEFSTV GGWVSTRASG MKKNIYGNIE DLVVHIKMVT PRGIIKSCQ GPRMSTGPD IHHFIMGSEGT LGVITEATIK IRPVPEYQKY GSVAFPNFEQ GVAACLREIAK QRCAPASIRL MDNKQFQFGH ALKPQVSSIF TSFLDGLKKF YITKFKGFDP NQLSVATLLF EGDREKVLQH EKQVYDIAAK FGGLAAGEDN GQRGYLLTYV IAYIRDLALE YYVLGESFET SAPWDRVVDL CRNVKERITR ECKEKG VQFA PFSTCRVTQT YDAGACIYFY FAFNYRGISD PLTVFEQTEA AAREEILANG GSLSHHHGVG KLRKQWLKES ISDVGF GMLK SVKEYVDPNN IFGNRNLL
Source	Yeast
Target Names	AGPS
Protein Names	Recommended name: Alkyldihydroxyacetonephosphate synthase, peroxisomal Short name= Alkyl-DHAP synthase EC= 2.5.1.26 Alternative name(s): Aging- associated gene 5 protein Alkylglycerone-phosphate synthase
Expression Region	59-658
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.