

Product datasheet for PH320918

Alkyl DHAP synthase (AGPS) (NM_003659) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AGPS MS Standard C13 and N15-labeled recombinant protein (NP_003650)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220918
Predicted MW:	72.91 kDa
Protein Sequence:	>RC220918 representing NM_003659 Red=Cloning site Green=Tags(s)

MAEAAAAAGGTGLGAGASYGSAADRDRDPDRAGRRLRVLSGHLLGRPREALSTNECKARRAASAATAA
PTATPAAQESGTIPKKRQEVKMWGWYNDKSFIFNKKGQIELTGKRYPLSGMGLPTFKEWIQNTLGVNV
EHKTTKASLNPSDTPPSVNVNEDFLHDLKETNISYSQEADDRVFRAGHCLHEIFLLREGMFERIPDIVL
WPTCHDDVVKIVNLACKYNLCIPIGGGTSVSYGLMCPAETRITISLDTSQMNRILWVDENNLTAHVEA
GITGQELERQLKESGYCTGHEPDSLEFSTVGGWVSTRASGMKKNYGNIEDLVVHIKMTVPRGIIKSCQ
GPRMSTGPDIIHFIMGSEGLGVITEATIKIRPVPEYQKYGSVAFPNFEQGVACLREIAKQRCAPASIRL
MDNKQFQFGHALKPOVSSIFTSFLDGLKKFYITKFKGFDPNQLSVATLLFEGDREKVLQHEKQVYDIAAK
FGGLAAGEDNGQRYLLTYVIAYIRDLALEYYVLGESFETSAPWDRVVDLCRNVKERITRECKEKGVQFA
PFSTCRVTQTYDAGACIYFYAFNYRGISDPLTVFEQTEAAAREEILANGGSLSHHHGVGKLRKQWLKES
ISDVGFGLKSVKEYVDPNNIFGNRLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_003650
RefSeq Size:	2074



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RefSeq ORF: 1974

Synonyms: ADAP-S; ADAS; ADHAPS; ADPS; ALDHPSY; RCDP3

Locus ID: 8540

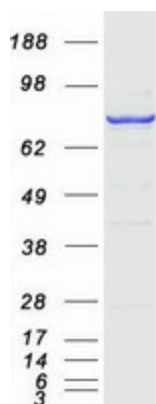
UniProt ID: [O00116](#)

Cytogenetics: 2q31.2

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Pathways: Ether lipid metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified AGPS protein (Cat# [TP320918]). The protein was produced from HEK293T cells transfected with AGPS cDNA clone (Cat# [RC220918]) using MegaTran 2.0 (Cat# [TT210002]).