

Product datasheet for PH301545

ALAD (NM_000031) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ALAD MS Standard C13 and N15-labeled recombinant protein (NP_000022)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201545
Predicted MW:	37.23 kDa
Protein Sequence:	>RC201545 representing NM_000031 Red=Cloning site Green=Tags(s) MPLCPLAHAMQPQSVLHSGYFHPLLRAWQTATTTLNASNLIYPIFVTDVPDDIQPITSLPGVARYGVKRL EEMLRPLVEEGLRCVLI FGVP SRVPKDERGSAADSEESPAIEAIHLLRKTFPNLLVACDVCLCPYTSHG CGLLENGAFRAEESRQLAEVALAYAKAGCQVVAPSDMMDGRVEAIKEALMAHGLGNRVSVMSYSAKFA SCFYGPFRDAAKSSPAFGDRRCYQLPPGARGLALRAVDRDVRREGADMLMVKPGMPYLDIVREVKDKHPDL PLAVYHVSGEFAMLWHGAQAGAFDLKAAVLEAMTAFRRAGADIIITYYTPQLLQWLKEE SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	<u>NP_000022</u>
RefSeq Size:	3151
RefSeq ORF:	1017
Synonyms:	ALADH; PBGS
Locus ID:	210



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UniProt ID: [P13716](#), [A0A140VJL9](#), [Q6ZMU0](#)

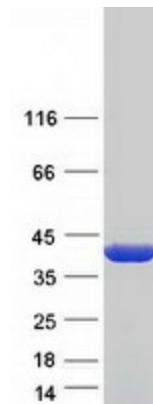
Cytogenetics: 9q32

Summary: The ALAD enzyme is composed of 8 identical subunits and catalyzes the condensation of 2 molecules of delta-aminolevulinate to form porphobilinogen (a precursor of heme, cytochromes and other hemoproteins). ALAD catalyzes the second step in the porphyrin and heme biosynthetic pathway; zinc is essential for enzymatic activity. ALAD enzymatic activity is inhibited by lead and a defect in the ALAD structural gene can cause increased sensitivity to lead poisoning and acute hepatic porphyria. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Porphyrin and chlorophyll metabolism

Product images:



Coomassie blue staining of purified ALAD protein (Cat# [TP301545]). The protein was produced from HEK293T cells transfected with ALAD cDNA clone (Cat# [RC201545]) using MegaTran 2.0 (Cat# [TT210002]).