

Product datasheet for **AR50269PU-S**

ALAD (1-330, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	ALAD (1-330, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSQMPPQSV LHSQYFHPLL RAWQTATTTL NASNLIYPIF VTDVPPDIQP ITSLPGVARY GVKRLEEMLR PLVEEGLRCV LIFGVPSRVP KDERGSAADS EESPAIEAIH LLRKTFFNLL VACDVCLCPY TSHGHCGLLS ENGAFAEES RQRLAEVALA YAKAGCQVVA PSDMMDGRVE AIKEALMAHG LGNRVSVMSY SAKFASCFYG PFRDAAKSSP AFGDRRCYQL PPGARGLALR AVDRDVREGA DMLMVKPGMP YLDIVREVVD KHPDLPLAVY HVSGEFAMLW HGAQAGAFDL KAAVLEAMTA FRRAGADIII TTYTPQLLQW LKEE
Tag:	His-tag
Predicted MW:	38.8 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.1M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human ALAD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000022
Locus ID:	210
UniProt ID:	P13716 , A0A140VJL9 , Q6ZMU0
Cytogenetics:	9q32
Synonyms:	ALADH; PBGS



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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: