

## **Product datasheet for AR50269PU-S**

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## 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 MGSSHHHHHH SSGLVPRGSH MGSHMQPQSV LHSGYFHPLL RAWQTATTTL NASNLIYPIF

or AA Sequence: VTDVPDDIQP ITSLPGVARY GVKRLEEMLR PLVEEGLRCV LIFGVPSRVP KDERGSAADS EESPAIEAIH

LLRKTFPNLL VACDVCLCPY TSHGHCGLLS ENGAFRAEES RQRLAEVALA YAKAGCQVVA
PSDMMDGRVE AIKEALMAHG LGNRVSVMSY SAKFASCFYG PFRDAAKSSP AFGDRRCYQL
PPGARGLALR AVDRDVREGA DMLMVKPGMP YLDIVREVKD KHPDLPLAVY HVSGEFAMLW

HGAQAGAFDL KAAVLEAMTA FRRAGADIII TYYTPQLLQW 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: <u>NP 000022</u>

Locus ID: 210

UniProt ID: <u>P13716</u>, <u>A0A140VJL9</u>, <u>Q6ZMU0</u>

Cytogenetics: 9q32

Synonyms: ALADH; PBGS





**Summary:** The ALAD enzyme is composed of 8 identical subunits and catalyzes the condensation of 2

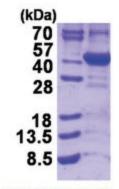
molecules of delta-aminolevulinate to form porphobilinogen (a precursor of heme,

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:**



15% SDS-PAGE (3ug)