

## Recombinant Human ALAD cell lysate

Cat. No. ALAD-54HCL Lot. No. (See product label)

### SPECIFICATION

**Species**

Human

**Description**

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.

**Size**

100 ul

**Storage Buffer**

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

**Applications**

Western Blot;

### GENE INFORMATION

**Gene Name**

ALAD aminolevulinate dehydratase [ Homo sapiens ]

**Official Symbol**

ALAD

**Synonyms**

ALAD; aminolevulinate dehydratase; aminolevulinate, delta , dehydratase; delta-aminolevulinic acid dehydratase; ALADH; PBGS; porphobilinogen synthase;

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	aminolevulinate, delta-, dehydratase; MGC5057;
<b>Gene ID</b>	<a href="#">210</a>
<b>mRNA Refseq</b>	<a href="#">NM_000031</a>
<b>Protein Refseq</b>	<a href="#">NP_000022</a>
<b>MIM</b>	<a href="#">125270</a>
<b>UniProt ID</b>	<a href="#">P13716</a>
<b>Chromosome Location</b>	9q32
<b>Pathway</b>	Heme Biosynthesis, organism-specific biosystem; Heme biosynthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of porphyrins, organism-specific biosystem; Porphyrin and chlorophyll metabolism, organism-specific biosystem; Porphyrin and chlorophyll metabolism, conserved biosystem;
<b>Function</b>	catalytic activity; identical protein binding; lead ion binding; lyase activity; porphobilinogen synthase activity; porphobilinogen synthase activity; zinc ion binding;

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