

Recombinant Human ALAD cell lysate

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

SPECIFICATION

Product Overview

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-

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	aminolevulinic acid dehydratase; ALADH; PBGS; porphobilinogen synthase; aminolevulinate, delta-, dehydratase; MGC5057;
Gene ID	210
mRNA Refseq	NM_000031
Protein Refseq	NP_000022
MIM	125270
UniProt ID	P13716
Chromosome Location	9q32
Pathway	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;
Function	catalytic activity; identical protein binding; lead ion binding; lyase activity; porphobilinogen synthase activity; porphobilinogen synthase activity; zinc ion binding;