

Recombinant Human ALAD Protein, GST-tagged

Cat. No. ALAD-428H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALAD full-length ORF (NP_000022.2, 1 a.a. - 339 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The ALAD enzyme is composed of 8 identical subunits and catalyzes the condensation of 2 molecules of delta-aminolevulinate to form uroporphobilinogen (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]
Molecular Mass	63.6 kDa
AA Sequence	MPLCPLAHAMQPQSVLHSGYFHPLLRWQTATTTLNASNLIYPIFVTDVPDDIQPITS LPGVARYGVKRLLEMLRPLVEEGLRCVLIFGVPSRVPKDERGSAADSEESPAIEAIHL LRKTFPNLLVACDVCLCPYTSHGHCGLLSENGAFRAEESRQRLAEVALAYAKAGCQ VVAPSDMMDGRVEAIKEALMAHGLGNRVSVMSYSAKFASCFYGPFRDAAKSSPAF GDRRCYQLPPGARGLALRAVDRDREGADMLMVKPGMPYLDIVREVKDKHPDLPL AVYHVSGEFAMLWHGAQAGAFDLKAAVLEAMTAFRRAGADIIITYYTPQLLQWLKEE

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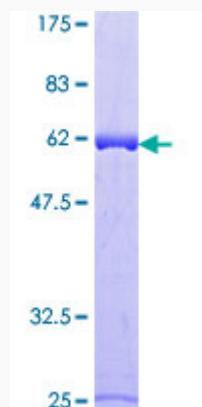
 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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; aminolevulinate, delta-, dehydratase; MGC5057;
Gene ID	210
mRNA Refseq	NM_000031
Protein Refseq	NP_000022
MIM	125270
UniProt ID	P13716

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12.5% SDS-PAGE Stained with Coomassie Blue.

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