

Recombinant Full Length Human ALAD Protein, GST-tagged

Cat. No. ALAD-1387HF 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	In Vitro Cell Free System
ProteinLength	339 amino acids
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. 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	MPLCPLAHAM QPQSVLHSGY FHPLLRAWQT ATTLNASNL IYPIFVTDVP DDIQPITSLP GVARYGVKRL EEMLRPLVEE GLRCVLIFGV PSRVPKDERG SAADSEESPA IEAIHLLRKT FPNLLVACDV CLCPYTSHGH CGLLSENGAF RAEESRQLA EVALAYAKAG CQVVAPSDMM DGRVEAIKEA LMAHGLGNRV SVMSYSAKFA SCFYGPFRDA AKSSPAFGDR RCYQLPPGAR GLALRAVDRD

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VREGADMLMV KPGMPYLDIV REVKDKHPDL PLAVYHVSGE FAMLWHGAQA
GAFDLKAAVL EAMTAFRRAG ADIITYYTP QLLQWLKEE

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

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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