

Recombinant Human ALAD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ALAD-6108H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ALAD MS Standard C13 and N15-labeled recombinant protein (NP_000022) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	37.23 kDa
AA Sequence	MPLCPLAHAMQPQSVLHSGYFHPLLRWQTATTTLNASNLIYPIFVTDVPDDIQPITS LPGVARYGVKRLEEMLRPLVEEGLRCLIFGVPSRVPKDERGSAADSEESPAIEAIHL LRKTFPNLLVACDVCLCPYTSHGHCGLLSENGAFRAEESRQRLAEVALAYAKAGCQ VVAPSDMMDGRVEAIKEALMAHGLGNRVSVMSYSAKFASCFYGPFRDAAKSSPAF GDRRCYQLPPGARGLALRAVDRDVREGADMLMVKPGMPYLDIVREVKDKHPDLPL

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AVYHVSGEFAMLWHGAQAGAFDLKAAVLEAMTAFRRAGADIITYTPQLLQWLKEE
SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ALAD aminolevulinate dehydratase [Homo sapiens (human)]

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

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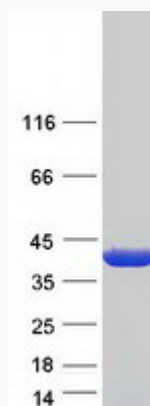
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UniProt ID

P13716

SDS-PAGE

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