# Recombinant Human ALAS1 293 Cell Lysate

**Cat. No.** ALAS1-8924HCL **Lot. No.** (See product label)

## SPECIFICATION

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| **Species** | Human |
| **Source** | HEK293 |
| **Description** | Antigen standard for aminolevulinate, delta-, synthase 1 (ALAS1), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection. |
| **Components** | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| **Size** | 0.1 mg |
| **Storage Instruction** | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment. |
| **Applications** | ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the |

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| | mixture at room temperature for 30 min). Load 5 ug lysate per lane. |

## GENE INFORMATION

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| **Gene Name** | ALAS1 aminolevulinate, delta-, synthase 1 [ Homo sapiens ] |
| **Official Symbol** | ALAS1 |
| **Synonyms** | ALAS1; aminolevulinate, delta-, synthase 1; ALAS, ALAS3; 5-aminolevulinate synthase, nonspecific, mitochondrial; ALAS-H; delta-ALA synthase 1; migration-inducing protein 4; 5-aminolevulinic acid synthase 1; delta-aminolevulinate synthase 1; ALAS; MIG4; ALAS3; ALASH; |
| **Gene ID** | 211 |
| **mRNA Refseq** | NM_000688 |
| **Protein Refseq** | NP_000679 |
| **MIM** | 125290 |
| **UniProt ID** | P13196 |
| **Chromosome Location** | 3p21 |
| **Pathway** | FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; Heme Biosynthesis, organism-specific biosystem; Heme biosynthesis, organism-specific biosystem; |

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| | Metabolic pathways, organism-specific biosystem; |
| **Function** | 5-aminolevulinate synthase activity; pyridoxal phosphate binding; transferase activity, transferring acyl groups; transferase activity, transferring nitrogenous groups; |

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