

Recombinant Human ALAS1 Protein, GST-tagged

Cat. No. ALAS1-429H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALAS1 partial ORF (NP_000679, 1 a.a. - 98 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes the mitochondrial enzyme which is catalyzes the rate-limiting step in heme (iron-protoporphyrin) biosynthesis. The enzyme encoded by this gene is the housekeeping enzyme; a separate gene encodes a form of the enzyme that is specific for erythroid tissue. The level of the mature encoded protein is regulated by heme: high levels of heme down-regulate the mature enzyme in mitochondria while low heme levels up-regulate. A pseudogene of this gene is located on chromosome 12. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2015]
Molecular Mass	36.52 kDa
AA Sequence	MESVVRRCPLSRVPQAFLQKAGKSLLFYAQNCPKMMEVGAKPAPRALSTAAVHY QQIKETPPASEKDKTAKAKVQQTPDGSQQSPDGTQLPSGHPLP
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.

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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 [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](#)

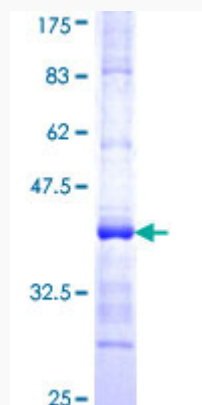
MIM [125290](#)

UniProt ID [P13196](#)

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12.5% SDS-PAGE Stained with Coomassie Blue.

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