

## Recombinant Human ALAS1 Protein, His-tagged

Cat. No. ALAS1-311H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ALAS1, transcript variant 1, fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	This gene encodes the mitochondrial enzyme which 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.
<b>Form</b>	25mM Tris, pH8.0, 150mM NaCl, 10% glycerol, 1 % Sarkosyl.
<b>Molecular Mass</b>	70.4 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method

### GENE INFORMATION

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<b>Gene Name</b>	ALAS1 aminolevulinate, delta-, synthase 1 [ Homo sapiens ]
<b>Official Symbol</b>	ALAS1
<b>Synonyms</b>	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;
<b>Gene ID</b>	211
<b>mRNA Refseq</b>	NM_000688
<b>Protein Refseq</b>	NP_000679
<b>MIM</b>	125290
<b>UniProt ID</b>	P13196

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