

Recombinant Human ALAS1 Protein, His-tagged

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

SPECIFICATION

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

GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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