

Recombinant Human ALAS2, His-tagged

Cat. No. ALAS2-27277TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 136-553 of Human ALAS2 with N terminal His tag, 46 kDa.
Species	Human
Source	E.coli
ProteinLength	136-553 a.a.
Description	The product of this gene specifies an erythroid-specific mitochondrially located enzyme. The encoded protein catalyzes the first step in the heme biosynthetic pathway. Defects in this gene cause X-linked pyridoxine-responsive sideroblastic anemia. Alternatively spliced transcript variants encoding different isoforms have been identified.
Conjugation	HIS
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, 20 μM pyridoxal 5 phosphate monohydrate pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.

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GENE INFORMATION

Gene Name	ALAS2 aminolevulinate, delta-, synthase 2 [Homo sapiens]
Official Symbol	ALAS2
Synonyms	ALAS2; aminolevulinate, delta-, synthase 2; aminolevulinate, delta , synthase 2 (sideroblastic/hypochromic anemia) , ASB; 5-aminolevulinate synthase, erythroid-specific, mitochondrial; sideroblastic/hypochromic anemia;
Gene ID	212
mRNA Refseq	NM_000032
Protein Refseq	NP_000023
MIM	301300
Uniprot ID	P22557
Chromosome Location	Xp11.21
Pathway	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; Metabolic pathways, organism-specific biosystem;
Function	5-aminolevulinate synthase activity; 5-aminolevulinate synthase activity; coenzyme binding; glycine binding; protein binding;

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