

Recombinant Human Aminolevulinate, Delta-, Synthase 2, His-tagged

Cat. No. ALAS2-419H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALAS (aminolevulinate, delta-, synthase 2) (a.a. 136-553) with N-terminal His tag, MW = 46 kDa, expressed in an <i>E.Coli</i> expression system.
Species	Human
Source	E.coli
ProteinLength	136-553 a.a.
Description	Delta-aminolevulinate synthase 2 also known as ALAS2 is a protein which in humans is encoded by the ALAS2 gene. ALAS2 is an aminolevulinic acid synthase. 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.
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 20% glycerol, 3 mM DTT, 20 µM pyridoxal 5' phosphate monohydrate.
Purity	90%.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

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Stability >6 months at -80°C.

GENE INFORMATION

Gene Name [ALAS2 aminolevulinate, delta-, synthase 2 \[Homo sapiens \]](#)

Synonyms ALAS2; aminolevulinate, delta-, synthase 2; ASB; ANH1; XLSA; ALASE; ALAS-E; FLJ93603; 5-aminolevulinate synthase 2; delta-ALA synthetase; 5-aminolevulinic acid synthase; delta-aminolevulinate synthase; 5-aminolevulinate synthase, erythroid-specific, mitochondrial; EC 2.3.1.37;aminolevulinate, delta-, synthase 2 (sideroblastic/hypochromic anemia); OTTHUMP00000023388; OTTHUMP00000023389

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; Metabolic pathways; Porphyrin and chlorophyll metabolism

Function 5-aminolevulinate synthase activity; acyltransferase activity; coenzyme binding; glycine binding; protein binding; pyridoxal phosphate binding; transferase activity,

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transferring nitrogenous groups

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