Recombinant Mouse Alas2 Protein, His-tagged

Cat. No. Alas2-113M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Alas2 Protein (Ala361-Ala587) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ala361-Ala587
Description	Enables 5-aminolevulinate synthase activity. Involved in erythrocyte differentiation; heme biosynthetic process; and hemoglobin biosynthetic process. Acts upstream of or within cellular iron ion homeostasis. Located in mitochondrion. Is expressed in several structures, including alimentary system; brain; genitourinary system; hemolymphoid system gland; and liver and biliary system. Human ortholog(s) of this gene implicated in cutaneous porphyria; erythropoietic protoporphyria; hemochromatosis; sideroblastic anemia; and sideroblastic anemia 1. Orthologous to human ALAS2 (5'-aminolevulinate synthase 2).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.7 kDa Accurate Molecular Mass: 29 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Alas2 aminolevulinic acid synthase 2, erythroid [Mus musculus (house mouse)]
Official Symbol	Alas2
Synonyms	ALAS2; aminolevulinic acid synthase 2, erythroid; 5-aminolevulinate synthase, erythroid-specific, mitochondrial; delta-ALA synthase 2; erythroid-specific ALAS; 5-aminolevulinic acid synthase 2; delta-aminolevulinate synthase 2; ALAS; ALASE; ALAS-E; Alas-2
Gene ID	11656
mRNA Refseq	NM_001102446
Protein Refseq	NP_001095916

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UniProt ID	P08680

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