

Recombinant Rat Alas1 Protein, His&GST-tagged

Cat. No. Alas1-111R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Alas1 Protein (Lys355-Ala642) with N-His&GST tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Lys355-Ala642
Description	Enables 5-aminolevulinate synthase activity. Involved in several processes, including cellular response to insulin stimulus; response to herbicide; and response to nickel cation. Located in mitochondrion. Biomarker of porphyria and pulmonary hypertension. Orthologous to human ALAS1 (5'-aminolevulinate synthase 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 62 kDa Accurate Molecular Mass: 62 kDa
Purity	> 90%
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

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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

[Alas1 aminolevulinate, delta-, synthase 1 \[Rattus norvegicus \(Norway rat\) \]](#)

Official Symbol

[Alas1](#)

Synonyms

ALAS1; aminolevulinate, delta-, synthase 1; 5-aminolevulinate synthase, nonspecific, mitochondrial; ALA-S; ALAS-H; ALAS-N; delta-ALA synthase 1; delta-ALA synthetase; 5-aminolevulinate synthase 1; aminolevulinic acid synthase 1; 5-aminolevulinic acid synthase 1; delta-aminolevulinate synthase 1; ALAS

Gene ID

[65155](#)

mRNA Refseq

[NM_024484](#)

Protein Refseq

[NP_077810](#)

UniProt ID

[P13195](#)

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