

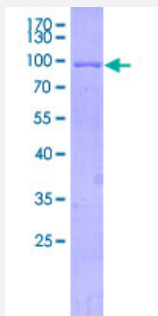
Full-Length

ALAS2 (Human) Recombinant Protein (P01)

Catalog # H00000212-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ALAS2 full-length ORF (BAG35939.1, 1 a.a. - 587 a.a.) recombinant protein with GST tag at N-terminal.

Sequence

MVTAAMLLQCCPVLARGPTSLLGKVVKTHQFLFGIGRCPILATQGPNCsqihLKATKAGGDSPSW
AKGHCPFMLSELQDGKSKVQKAAPEVQEDVKAFKTDLPSSSLVSVSLRKPFSGPQEQQEQISGKV
THLIQNNMPGNYVFSYDQFFRDKIMEKKQDHTYRVFKTVNRWADAYPFAQHfSEASVASKDVSV
WCSNDYLGMSRHPQVLQATQETLQRHGAGAGGTRNISGTSKFHVELEQELAEHQKDSALLFSS
CFVANDSTLFTLAKILPGCEIYSDAGNHASMIQGIRNSGAAKFVFRHNDPDHLKKLLEKSNPKIPKIV
AFETVHSMdGAICPLEELCDVSHQYGALTFVDEVHAVGLYGSRGAGIGERDGIIMHKIDIISGTLGKA
FGCVGGYASTRDLVDMVRSYAAGFIFTSLPPMVLsgALESVRLLKGEEGQALRRAHQRNVKHM
RQLLMDRGLPVIPCPSHIPIRVGNAALNSKLCDLLLSKHGIVQAINYPTVPRGEELLRLAPSPHHS
PQMMEDFVEKLLLAWTAVGLPLQDVSVAACNFCRRPVHFELMSEWERSYFGNMGPQYVTTYA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

91

Interspecies Antigen Sequence

Mouse (90); Rat (89)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ALAS2

Entrez GeneID	212
GeneBank Accession#	AK313118.1
Protein Accession#	BAG35939.1
Gene Name	ALAS2
Gene Alias	ALAS-E, ALASE, ANH1, ASB, FLJ93603, XLSA
Gene Description	aminolevulinate, delta-, synthase 2
Omim ID	301300
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	5-aminolevulinate synthase, erythroid-specific, mitochondrial 5-aminolevulinic acid synthase OTTHUMP00000023388 OTTHUMP00000023389 delta-ALA synthetase delta-aminolevulinate synthase

Pathway

- [Glycine](#)
- [Metabolic pathways](#)
- [Porphyrin and chlorophyll metabolism](#)