

## Product datasheet for **TP761106**

### ALAS1 (NM\_000688) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human aminolevulinate, delta-, synthase 1 (ALAS1), transcript variant 1, full length, with N-terminal HIS tag, expressed in E. coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding human full-length ALAS1
Tag:	N-His
Predicted MW:	70.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_000679</a>
Locus ID:	211
UniProt ID:	<a href="#">P13196</a> , <a href="#">Q5JAM2</a>
RefSeq Size:	2407
Cytogenetics:	3p21.2
RefSeq ORF:	1920
Synonyms:	ALAS; ALAS-H; ALAS3; ALASH; MIG4



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**Summary:**

This gene encodes the mitochondrial enzyme which catalyzes the rate-limiting step in heme (iron-protoporphyrin) biosynthesis. The enzyme encoded by this gene is the housekeeping enzyme; a separate gene encodes a form of the enzyme that is specific for erythroid tissue. The level of the mature encoded protein is regulated by heme: high levels of heme down-regulate the mature enzyme in mitochondria while low heme levels up-regulate. A pseudogene of this gene is located on chromosome 12. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2015]

**Protein Pathways:**

Glycine, serine and threonine metabolism, Metabolic pathways, Porphyrin and chlorophyll metabolism

**Product images:**