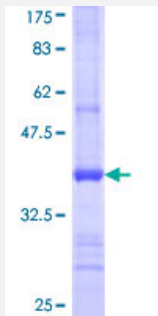


ALAD (Human) Recombinant Protein (Q01)

Catalog # H00000210-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ALAD partial ORF (NP_000022, 241 a.a. - 338 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GLALRAVD RDVREGADMLMVKPGMPYLDIVREV KDKHPDLPLAVYHVS GEFAMLWHGAQAGAF DLKAAVLEAMTAFRRAGADIIITYYTPQLLQWLKE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.52
Interspecies Antigen Sequence	Mouse (87); Rat (84)
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 — ALAD

Entrez GeneID	210
GeneBank Accession#	NM_000031
Protein Accession#	NP_000022
Gene Name	ALAD
Gene Alias	ALADH, MGC5057, PBGS
Gene Description	aminolevulinate, delta-, dehydratase
Omim ID	125270
Gene Ontology	Hyperlink
Gene Summary	The ALAD enzyme is composed of 8 identical subunits and catalyzes the condensation of 2 molecules of delta-aminolevulinate to form porphobilinogen (a precursor of heme, cytochromes and other hemoproteins). ALAD catalyzes the second step in the porphyrin and heme biosynthetic pathway; zinc is essential for enzymatic activity. ALAD enzymatic activity is inhibited by lead and a defect in the ALAD structural gene can cause increased sensitivity to lead poisoning and acute hepatic porphyria. [provided by RefSeq]
Other Designations	aminolevulinate dehydratase delta-aminolevulinic acid dehydratase porphobilinogen synthase

Pathway

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

Disease

- [Amyotrophic lateral sclerosis](#)
- [Bone Resorption](#)
- [Brain Neoplasms](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [DNA Damage](#)
- [Essential tremor](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Hypertension](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Lead Poisoning](#)
- [Lung Neoplasms](#)
- [Meningioma](#)
- [Mental Disorders](#)
- [Mental Recall](#)
- [Mental Status Schedule](#)
- [Motor Skills](#)
- [Neuropsychological Tests](#)
- [Occupational Diseases](#)
- [Psychomotor Performance](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)