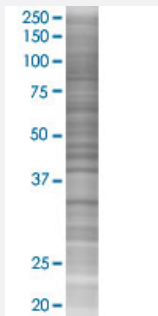


ALAD 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00000210-T02

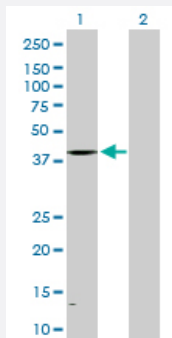
Size 100 uL

Applications



SDS-PAGE Gel

ALAD transfected lysate.



Western Blot

Lane 1: ALAD transfected lysate (37.20 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-ALAD full-length
Host	Human
Theoretical MW (kDa)	37.2
Interspecies Antigen Sequence	Mouse (89); Rat (88)

Quality Control Testing

Transient overexpression cell lysate was tested with Anti-ALAD antibody ([H00000210-D01P](#)) by Western Blots.
SDS-PAGE Gel
ALAD transfected lysate.
Western Blot
Lane 1: ALAD transfected lysate (37.20 KDa)
Lane 2: Non-transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — ALAD

Entrez GeneID[210](#)**GeneBank Accession#**[NM_000031](#)**Protein Accession#**[NP_000022.2](#)**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 uroporphobilinogen (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|uroporphobilinogen 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](#)