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# ALAD Human

**Description:**ALAD Human Recombinant produced in E. coli is a single polypeptide chain containing 354 amino acids (1-330) and having a molecular mass of 38.8kDa.ALAD is fused to a 24 amino acid His-tag at N-terminus &amp; purified by proprietary chromatographic techniques.

**Synonyms:**Aminolevulinate delta-dehydratase, ALADH, PBGS, Porphobilinogen synthase, delta-aminolevulinic acid dehydratase, EC 4.2.1.24.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSHMQPQSV LHSGYFHPLL RAWQTATTTL NASNLIYPIF VTDVPDDIQP ITSLPGVARY GVKRLEEMLR PLVEEGLRCV LIFGVPSRVP KDERGSAADS EESPAIEAIH LLRKTFPNLL VACDVCLCPY TSHGHCGLLS ENGAFRAEES RQRLAEVALA YAKAGCQVVA PSDMMDGRVE AIKEALMAHG LGNRVSVMSY SAKFASCFYG PF

**Purity:**Greater than 85% as determined by SDS-PAGE.

**Formulation:**
The ALAD solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl and 10% glycerol.

**Stability:**
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

**Usage:**
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**
ALAD form porphobilinogen (a precursor of heme, cytochromes and other hemoproteins) by catalyzing the compression of 2 molecules of delta-aminolevulinate. ALAD catalyzes the second step in the porphyrin and heme biosynthetic pathway; zinc is vital for enzymatic activity. ALAD has 8 identical subunits and its enzymatic activity is inhibited by lead. Mutations in the ALAD structural gene are the source for high sensitivity to lead poisoning and acute hepatic porphyria.

***To place an order, please Click HERE.***

**Catalog #:**ENPS-593

For research use only.