

32-2141: ALAD Recombinant Protein

Alternative Name : Aminolevulinate delta-dehydratase,ALADH,PBGS,Porphobilinogen synthase,delta-aminolevulinic acid dehydratase,EC 4.2.1.24.

Description

Source : E.coli. 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 & purified by proprietary chromatographic techniques. 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.

Product Info

Amount : 10 µg
Purification : Greater than 85% as determined by SDS-PAGE.
Content : The ALAD solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl and 10% glycerol.
Storage condition : 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.
Amino Acid : MGSSHHHHHH SSSLVPRGSH MGSQMOPQSV LHSFYHPLL RAWQTATTTL NASNLIPIF VTDVPDDIQP
ITSLPGVARY GVKRLEEMLR PLVEEGLRCV LIFGVPSRVP KDERGSAADS EESPAIEAIH LLRKTFPNLL
VACDVCLCPY TSHGHCGLLS ENGAFRAEES RQRLAEVALA YAKAGCQVVA PSDMMDGRVE
AIKEALMAHG LGNRVSVMSY SAKFASCFYG PFRDAAKSSP AFGDRRCYQL PPGARGLLR AVDRDVREGA
DMLMVKPGMP YLDIVREVVD KHPDLPLAVY HVSGEFAMLW HGAQAGAFDL KAAVLEAMTA FRRAGADIII
TYTYPQLLQW LKEE.

