



# Recombinant Human Delta-aminolevulinic acid dehydratase (ALAD)

<b>Product Code</b>	CSB-BP001558HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P13716
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MQPQSVLHSG YFHPLLRWQ TATTTLNASN LIYPIFVTDV PDDIQPITSL PGVARYGVKR LEEMLRPLVE EGLRCVLIFG VPSRVPKDER GSAADSEESP AIEAIHLLRK TFPNLLVACD VCLCPYTSHG HCGLLSENGA FRAEESRQRL AEVALAYAKA GCQVVAPSDM MDGRVEAIKE ALMAHGLGNR VSVMSYSAKF ASCFYGPFRD AAKSSPAFGD RRCYQLPPGA RGLALRAVDR DVREGADMLM VKPGMPYLDI VREVKDKHPD LPLAVYHVSG EFAMLWHGAQ AGAFDLKAAV LEAMTAFRRA GADIITYYT PQLLQWLKEE
<b>Source</b>	Baculovirus
<b>Target Names</b>	ALAD
<b>Protein Names</b>	Recommended name: Delta-aminolevulinic acid dehydratase Short name= ALADH EC= 4.2.1.24 Alternative name(s): Porphobilinogen synthase
<b>Expression Region</b>	1-330
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life



of lyophilized form is 12 months at -20°C/-80°C.