Recombinant Human Delta-aminolevulinic acid dehydratase (ALAD)

Product Code	CSB-MP001558HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P13716
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MQPQSVLHSG YFHPLLRAWQ 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 GADIIITYYT PQLLQWLKEE
Source	Mammalian cell
Target Names	ALAD
Protein Names	Recommended name: Delta-aminolevulinic acid dehydratase Short name= ALADH EC= 4.2.1.24 Alternative name(s): Porphobilinogen synthase
Expression Region	1-330
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.
Reconstitution	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.
Shelf Life	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.