# Recombinant Human 5-aminolevulinate synthase, erythroid-specific, mitochondrial (ALAS2)

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| **Product Code** | CSB-YP001560HU |
| **Storage** | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| **Uniprot No.** | P22557 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | ≥85% (SDS-PAGE) |
| **Sequence** | Q IHLKATKAGG DSPSWAKGHC PFMLSELQDG KSKIVQKAAP EVQEDVKAFK TDLPSSLVSV SLRKPFSGPQ EQEQISGKVT HLIQNNMPGN YVFSYDQFFR DKIMEKKQDH TYRVFKTVNR WADAYPFAQH FSEASVASKD VSVWCSNDYL GMSRHPQVLQ ATQETLQRHG AGAGGTRNIS GTSKFHVELE QELAELHQKD SALLFSSCFV ANDSTLFTLA KILPGCEIYS DAGNHASMIQ GIRNSGAAKF VFRHNDPDHL KKLLEKSNPK IPKIVAFETV HSMDGAICPL EELCDVSHQY GALTFVDEVH AVGLYGSRGA GIGERDGIMH KIDIISGTLG KAFGCVGGYI ASTRDLVDMV RSYAAGFIFT TSLPPMVLSG ALESVRLLKG EEGQALRRAH QRNVKHMRQL LMDRGLPVIP CPSHIIPIRV GNAALNSKLC DLLLSKHGIY VQAINYPTVP RGEELLRLAP SPHHSPQMME DFVEKLLLAW TAVGLPLQDV SVAACNFCRR PVHFELMSEW ERSYFGNMGP QYVTTYA |
| **Source** | Yeast |
| **Target Names** | ALAS2 |
| **Protein Names** | Recommended name: 5-aminolevulinate synthase, erythroid-specific, mitochondrial Short name= ALAS-E EC= 2.3.1.37 Alternative name(s): 5-aminolevulinic acid synthase 2 Delta-ALA synthase 2 Delta-aminolevulinate synthase 2 |
| **Expression Region** | 50-587 |
| **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 of Mature Protein |
| **Target Details** | The product of this gene specifies an erythroid-specific mitochondrially located enzyme. The encoded protein catalyzes the first step in the heme biosynthetic pathway. Defects in this gene cause X-linked pyridoxine-responsive sideroblastic anemia. Alternatively spliced transcript variants encoding different isoforms have been identified. |
| **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 |

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| | 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.<br>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. |