Recombinant Human Pyrroline-5-carboxylate reductase 1, mitochondrial (PYCR1)

Product Code	CSB-YP019115HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P32322
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	SVGFIGAGQ LAFALAKGFT AAGVLAAHKI MASSPDMDLA TVSALRKMGV KLTPHNKETV QHSDVLFLAV KPHIIPFILD EIGADIEDRH IVVSCAAGVT ISSIEKKLSA FRPAPRVIRC MTNTPVVVRE GATVYATGTH AQVEDGRLME QLLSSVGFCT EVEEDLIDAV TGLSGSGPAY AFTALDALAD GGVKMGLPRR LAVRLGAQAL LGAAKMLLHS EQHPGQLKDN VSSPGGATIH ALHVLESGGF RSLLINAVEA SCIRTRELQS MADQEQVSPA AIKKTILDKV KLDSPAGTAL SPSGHTKLLP RSLAPAGKD
Source	Yeast
Target Names	PYCR1
Protein Names	Recommended name: Pyrroline-5-carboxylate reductase 1, mitochondrial Short name= P5C reductase 1 Short name= P5CR 1 EC= 1.5.1.2
Expression Region	2-319
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	This gene encodes an enzyme that catalyzes the NAD(P)H-dependent conversion of pyrroline-5-carboxylate to proline. This enzyme may also play a physiologic role in the generation of NADP(+) in some cell types. The protein forms a homopolymer and localizes to the mitochondrion. Alternate splicing results in two transcript variants encoding different isoforms.
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.