

## 32-2775: PYCR1 Recombinant Protein

**Alternative Name :** P5C,PRO3,P5CR 1,Pyrraline-5-Carboxylate Reductase 1  
mitochondrial,ARCL2B,PYCR,PIG45,PP222,Proliferation-Inducing Protein 45.

### Description

Source : Escherichia Coli. PYCR1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 339 amino acids (1-319a.a.) and having a molecular mass of 35.5kDa.PYCR1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. PYCR1 is a universal housekeeping enzyme which catalyzes the NAD(P)H-dependent conversion of pyrroline-5-carboxylate to proline. PYCR1 enzyme also takes a physiologic part in the generation of NADP(+) in certain cell types. PYCR1 forms a homopolymer and localizes to the mitochondrion. Mutations in PYCR1 are the source of cutis laxa autosomal recessive type 2B (ARCL2B).

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 90% as determined by SDS-PAGE.  
**Content :** The PYCR1 protein solution (0.5mg/1ml) is formulated in 20 mM Tris-HCl Buffer (pH 8.5) 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 MSVGFAGQ LAFALAKGFT AAGVLAHAKI MASSPDMDLA  
TVSALRKMVG KLTPHNKETV QHSDVFLAV KPHIIPFILD EIGADIEDRH IVVSCAAGVT ISSIEKKLSA  
FRPAPRVIRC MTNTPVVVRE GATVYATGTH AQVEDGRLME QLLSSVGFCT EVEEDLIDAV TGLSGSGPAY  
AFTALDALAD GGVKMGLPRR LAVRLGAQAL LGAAMLLHS EQHPGQLKDN VSSPGGATIH ALHVLESGGF  
RSLINAVEA SCIRTRELQS MADQEQVSPA AIKKTILDKV KLDSPAGTAL SPSGHTKLLP RSLAPAGKD

