

PYCR1, human recombinant protein**Pyrroline-5-carboxylate reductase 1, ARCL2B, P5C, P5CR, PIG45, PP222, PRO3****Catalog # PBV10991r****Specification****PYCR1, human recombinant protein - Product info**

Primary Accession	P32322
Concentration	0.5
Calculated MW	35.5 kDa (339 aa, 1-319 aa + His Tag). KDa

PYCR1, human recombinant protein - Additional Info

Gene ID	5831
Gene Symbol	PYCR1
Other Names	
Pyrroline-5-carboxylate reductase 1, ARCL2B, P5C, P5CR, PIG45, PP222, PRO3	
Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	N/A;
Recombinant	Yes
Sequence	MGSSHHHHHH SSGLVPRGSH MSVGFIGAGQ LAFALAKGFT AAGVLAHAKI MASSPDMDLA TVSALRKMGV KLTPHNKETV QHSDVFLAV KPHIIPFILD EIGADIEDRH IVVSCAAGVT ISSIEKKLSA FRPAPRVIRC MTNTPVVVRE GATVYATGTH AQVEDGRLME QLLSSVGFC EVEEDLIDAV TGLSGSGPAY AFTALDALAD GGVKMGLPRR LAVRLGAQAL LGAAMLLHS EQHPGQLKDN VSSPGGATIH ALHVLES RSLINAVEA SCIRTRELQS MADQEQVSPA AIKKTILDKV KLDSPAGTAL SPSGHTKLLP RSLAPAGKD

Target/Specificity

PYCR1

Format

Liquid

Storage

-80°C; 0.5 mg/ml in 20 mM Tris-HCl buffer (pH 8.5) containing 10% glycerol.

PYCR1, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PYCR1, human recombinant protein - Images**PYCR1, human recombinant protein - Background**

PYCR1 is a universal housekeeping 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. It forms a homopolymer and localizes to the mitochondrion. Defects in PYCR1 are the cause of cutis laxa autosomal recessive type 2B (ARCL2B). Recombinant human PYCR1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.