

Recombinant Human Pyrroline-5-carboxylate Reductase 1, His-tagged

Cat. No. PYCR1-935H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PYCR1 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 35.5 kDa(339aa).
Species	Human
Source	E.coli
Description	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).
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.5) containing 10% Glycerol.
Purity	> 90% by SDS - PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MSVGFIGAGQ LAFALAKGFT AAGVLAHKI MAS SPDMDLA TVSALRKMGV KLTPHNKETV QHSDVLFLAVKPHIIPFILD EIGADIEDRH IVVSC AAGVT ISSIEKKLSA FRPAPRVIRC MTNTPVVVRE GATVYATGTH AQV EDGRLME QLLSSVGFCTEVEEDLIDAV TGLSGSGPAY AFTALDALAD GGVK MGLPRR LAVRLGAQAL LGA AKMLLHS EQHPGQLKDN VSSPGGATIH ALHVL

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ESG GFRSLLINAVEA SCIRTRELQS MADQEQVSPA AIKKTILDKV KLDSPAGTAL
SPS GHTKLLP RSLAPAGKD.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Arginine and proline metabolism; Metabolic pathways; Metabolism of amino acids and derivatives

GENE INFORMATION

Gene Name

[PYCR1](#) pyrroline-5-carboxylate reductase 1 [[Homo sapiens](#)]

Synonyms

pyrroline-5-carboxylate reductase 1; P5C; P5CR; PRO3; PYCR; PIG45; PP222; ARCL2B; PYCR1; pyrroline-5-carboxylate reductase 1, mitochondrial; P5CR 1; P5C reductase 1; proliferation-inducing protein 45; EC 1.5.1.2

Gene ID

[5831](#)

mRNA Refseq

[NM_006907](#)

Protein Refseq

[NP_008838](#)

MIM

[179035](#)

UniProt ID

[P32322](#)

**Chromosome
Location**

17q25.3

Function

binding; oxidoreductase activity; pyrroline-5-carboxylate reductase activity

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on 2ger.



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