

Recombinant Human PYCR1, His-tagged

Cat. No. PYCR1-31273TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PYCR1 protein with an N terminal His tag. Predicted MWt: 34 kDa;
Species	Human
Source	E.coli
Description	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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 57 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MSVGFIGAGQLAFALAKGFTAAGVLAAHKIMASSPDMDLA TVSALRKMGVKLTPHN KETVQHSDVLFLLAVKPHIIPFI LDEIGADIEDRHIVVSCAAGVTISSIEKKLSAFRPAPR VIRCMTNTPVVVREGATVYATGTHAQVEDGRLMEQLLSSV GFCTEVEEDLIDAVTG

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LSGSGPAYAFTALDALADGGVK MGLPRRLAVRLGAQALLGAAKMLLHSEQHPGQL
KDNVS SPGGATIHALHVLESGGFRSLINAVEASCIRTRELQSMADQEQVSPAIIKK
TILDKVKLDSPAGTALSPSGHTKLLP RSLAPAGKD

Full Length Full L.

GENE INFORMATION

Gene Name PYCR1 pyrroline-5-carboxylate reductase 1 [Homo sapiens]

Official Symbol PYCR1

Synonyms PYCR1; pyrroline-5-carboxylate reductase 1; pyrroline-5-carboxylate reductase 1, mitochondrial; P5C;

Gene ID 5831

mRNA Refseq NM_006907

Protein Refseq NP_008838

MIM 179035

Uniprot ID P32322

Chromosome Location 17

Pathway Amino acid synthesis and interconversion (transamination), organism-specific biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Metabolic pathways, organism-specific

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biosystem; Metabolism, organism-specific biosystem;

Function

identical protein binding; nucleotide binding; oxidoreductase activity; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor; pyrroline-5-carboxylate reductase activity;

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