



PYCR1, 1-319aa, Human, His tag, E.coli

Cat.NO.: TP03607

3th Edition

Synonyms: Pyrroline-5-carboxylate reductase 1, ARCL2B, P5C, P5CR, PIG45, PP222, PRO3

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

Molecular Weight: 35.5 kDa(339aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMSVGFAGQLAFALAKGFTAAGVLAHKIMASSPDMDLATVSALRKMVGKLT
PH NKETVQHSDVLFVAVKPHIIPFILDEIGADIEDRHVVSCAAGVTISSIEKKLSAFRPAPRVIRCMTNTPVVVREGATVY
ATGTHAQVEDGRLMEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQALL
GAAKMLLHSEQHPGQLKDNVSSPGGATIHVLESGGFRLLINAVEASCIRTRELQSMADQEQVSPAAIKKTILD
KVKLDSPAGTALSPSGHTKLLPRSLAPAGKD

Purity: > 95% by HPLC

Concentration: 0.5 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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.