
Product Data Sheet

Product Name: PYCR1 Human
 Cat. No.: GP22207
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	P5C; PRO3; P5CR 1; Pyrroline-5-Carboxylate Reductase 1 mitochondrial; ARCL2B; PYCR; PIG45; PP222; Proliferation-Inducing Protein 45.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSVGFAGQ LAFALAKGFT AAGVLAHAI MASSPDMDLA TVSALRKMVG KLTPHNKETV QHSDVLFLAV KPHIIPFILD EIGADIEDRH IVVSCAAGVT ISSIEKKLSA FRPAPRVIRC MTNTPVVVRE GATVYATGTH AQVEDGRLME QLLSSVGFCT EVEEDLIDAV TGLSGSGPAY AFTALDALAD GGVKMGLPRR LAVRLGAQAL LGAAKMLLHS EQHPGQLKDN VSSPGGATIH ALHVLESGGF RLLINAVEA SCIRTRELQS MADQEQVSPA AIKKTILDKV KLDSPAGTAL SPSGHTKLLP RSLAPAGKD		
Formulation	The PYCR1 protein solution (0.5mg/1ml) is formulated in 20 mM Tris-HCl Buffer (pH 8.5) and 10% Glycerol.		

Introduction

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).

Stability

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.

Background

PYCR1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 339

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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