
Product Data Sheet

Product Name: PYCR2 Human
 Cat. No.: GP22208
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	P5CR2; Pyrroline-5-carboxylate reductase 2 isoform 1;P5C reductase 2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSVGFIG AGQLAYALAR GFTAAGILSA HKIIASSPEM NLPTVSALRKMGVNLTRSNK ETVKHSDVLF LAVKPHIIPF ILDEIGADVQ ARHIVVSCAA GVTISSVEKK LMAFQPAPKVIRCMTNTPVV VQEGATVYAT GTHALVEDGQ LLEQLMSSVG FCTEVEEDLI DAVTGLSGSG PAYAFMALDALADGGVKMGL PRRLAIQLGA QALLGAAKML LDSEQHPCQL KDNVCSPGGA TIHALHFLES GGFRSLLINAVEASCIRTRE LQSMADQEKI SPAALKKTLL DRVKLESPTV STLTSPSPGK LLTRSLALGG KKD.		
Formulation	PYCR2 protein solution (0.25mg/ml) in phosphate buffered saline (pH7.4), 50% glycerol, 5mM DTT and 1mM EDTA.		

Introduction

Pyrroline-5-carboxylate reductase 2 isoform 1 (PYCR2) is a member of the pyrroline-5-carboxylate reductase family. PYCR2 protein catalyzes the conversion of pyrroline-5-carboxylate to proline, which is the last step in proline biosynthesis. The three substrates of the PYCR2 enzyme are L-proline, NAD⁺, and NADP⁺, while its four products are 1-pyrroline-5-carboxylate, NADH, NADPH, and H⁺.

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

PYCR2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 343 amino acids (1-320 a.a) and having a molecular mass of

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

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36kDa.PYCR2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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