

Recombinant Human Pyrroline-5-carboxylate Reductase 1

Cat. No. CRY22 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PYCR1 produced in E. coli is a single non-glycosylated polypeptide chain containing 321 amino acids and having a molecular mass of approximately 38 kDa.
Species	Human
Source	E. coli
Description	Pyrroline-5-carboxylate reductase (P5CR) is a universal housekeeping enzyme that catalyzes the reduction of Delta(1)-pyrroline-5-carboxylate (P5C) to proline using NAD(P)H as the cofactor. The enzymatic cycle between P5C and proline is very important for the regulation of amino acid metabolism, intracellular redox potential, and apoptosis.
Physical Appearance	Sterile Liquid
Purity	>98% as determined by RP-HPLC and SDS-PAGE.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Reconstitution	Sample is ready to use. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Synonyms

P5C; P5CR; PIG45; PP222; PYCR; P5C reductase; proliferation-inducing protein 45; pyrroline-5-carboxylate reductase 1; EC 1.5.1.2; P5C reductase 1; P5CR1

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