



# PYCR1 Protein Crystal

Catalog: CBCRY27

## PRODUCT INFORMATION

Name	PYCR1 Protein Crystal
Cat No.	CBCRY27
Fragment	Full length
Protein Description	Pyrroline-5-carboxylate Reductase 1
Background	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.
Protein Classification	Oxidoreductase
Structure Weight	168155.50 Da
Method	X-Ray Diffraction
Resolution	3.1Å
Reference	Meng, Z., Lou, Z., Liu, Z., Li, M., Zhao, X., Bartlam, M., Rao, Z. (2006) Crystal structure of human pyrroline-5-carboxylate reductase J.Mol.Biol. 359: 1364-1377

## USAGE GUIDELINES

General	Avoid excessive mixing or shocking to prevent aggregation. Long term storage above -80°C may result in aggregate formation.
Storage	Short term: +2°C to +8°C Long term: -80°C
Stability	n.a.
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.

