



# PYCR1 Protein Crystal

Catalog: CBCRY27

## PRODUCT INFORMATION

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<b>Name</b>	PYCR1 Protein Crystal
<b>Cat No.</b>	CBCRY27
<b>Fragment</b>	Full length
<b>Protein Description</b>	Pyrroline-5-carboxylate Reductase 1
<b>Background</b>	<p>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.</p>
<b>Protein Classification</b>	Oxidoreductase
<b>Structure Weight</b>	168155.50 Da
<b>Method</b>	X-Ray Diffraction
<b>Resolution</b>	3.1Å
<b>Reference</b>	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