



PTP1B Protein Crystal

Catalog: CBCRY52

PRODUCT INFORMATION

Name	PTP1B Protein Crystal
Cat No.	CBCRY52
Fragment	Catalytic domain
Protein Description	Protein Tyrosine Phosphatase, Non-receptor Type 1
Background	<p>Tyrosine-protein phosphatase non-receptor type 1 belongs to tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. Tyrosine-protein phosphatase acts as a regulator of endoplasmic reticulum unfolded protein response. It mediates dephosphorylation of EIF2AK3/PERK, and also regulates the hepatocyte growth factor receptor signaling pathway.</p>
Protein Classification	Hydrolase
Structure Weight	37896.55 Da
Method	X-Ray Diffraction
Resolution	1.85 Å
Ligand Chemical Component	Mg ²⁺ , O-PHOSPHOTYROSINE
Reference	Puius YA, Zhao Y, Sullivan M, Lawrence DS, Almo SC, Zhang ZY. Crystal Structure of Protein Tyrosine Phosphatase 1B Complexed With Two Phosphotyrosine Molecules.