



PGAM1 Protein Crystal

Catalog: CBCRY11

PRODUCT INFORMATION

Product Name	PGAM1 Protein Crystal
Catalog Number	CBCRY11
Fragment	Full length
Protein Description	Phosphoglycerate Mutase 1
Background	The B-type cofactor-dependent phosphoglycerate mutase (dPGM-B) catalyzes the interconversion of 2-phosphoglycerate and 3-phosphoglycerate in glycolysis and gluconeogenesis pathways using 2,3-bisphosphoglycerate as the cofactor. The crystal structures of human dPGM-B bound with citrate were determined in two crystal forms. These structures reveal a dimerization mode conserved in both of dPGM and BPGM (bisphosphoglycerate mutase), based on which a dPGM/BPGM heterodimer structure is proposed. Structural comparison supports that the conformational changes of residues 13-21 and 98-117 determine PGM/BPGM activity differences.
Protein Classification	isomerase hydrase
Structure Weight	361525.84 Da
PDBID	1YJX
Method	X-Ray Diffraction
Resolution	2.8 Å



Ligand Chemical Component	citric acid; chloride ion
Reference	Wang, Y., Wei, Z., Liu, L., Cheng, Z., Lin, Y., Ji, F., Gong, W. (2005) Crystal structure of human B-type phosphoglycerate mutase bound with citrate. Biochem.Biophys.Res.Communic. 331: 1207-1215
cDNA Length	786

USAGE GUIDELINES

General Handling	Avoid excessive mixing or vortexing to prevent aggregation. Long-term storage above -80°C may result in aggregate formation. Thaw on ice before use.
Storage	Short term: +2°C to +8°C (up to 1 week) Long term: -80°C (stable for 12 months)
Stability	Stable for 12 months at -80°C. Avoid repeated freeze-thaw cycles.
Freeze / Thaw	Can be frozen, but limit to 3 freeze/thaw cycles to maintain particle integrity.

Important: This product is for **research use only**. Not intended for diagnostic or therapeutic applications. Please refer to the Safety Data Sheet (SDS) for complete handling and safety information.