



PLK4 Protein Crystal

Catalog: CBCRY56

PRODUCT INFORMATION

Product Name	PLK4 Protein Crystal
Catalog Number	CBCRY56
Fragment	Polo box domain
Protein Description	Polo-like Kinase 4
Background	Polo-like kinase 4 (PLK4) belongs to the polo family of serine/threonine protein kinases. PLK4 localizes to centrioles, complex microtubule-based structures found in centrosomes, and regulates centriole duplication during the cell cycle. Three alternatively spliced transcript variants that encode different protein isoforms have been found for this gene. PLK4 is involved in trophoblast differentiation by phosphorylating HAND1, leading to disrupt the interaction between HAND1 and MDFIC and activate HAND1.
Protein Classification	Transferase
Structure Weight	64844.43 Da
PDBID	3COK
Method	X-Ray Diffraction
Resolution	2.25 Å
Ligand Chemical Component	SULFATE ION, ANP



Reference	Atwell S, Burley SK, Houle A, Leon B, Pelletier LA, Sauder JM. Crystal structure of plk4 kinase. No recorded citation in PubMed.
cDNA Length	2910

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.