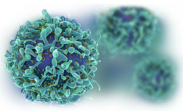

PLK1 Protein Crystal

Catalog: CBCRY53

PRODUCT INFORMATION

Product Name	PLK1 Protein Crystal
Catalog Number	CBCRY53
Fragment	Polo box domain
Protein Description	Polo-like Kinase 1
Background	Polo-like kinase proteins acts by binding and phosphorylating proteins are that already phosphorylated on a specific motif recognized by the POLO box domains. The Ser/Thr protein kinase belongs to the CDC5/Polo subfamily. It is highly expressed during mitosis and elevated levels are found in many different types of cancer. Depletion of this protein in cancer cells dramatically inhibited cell proliferation and induced apoptosis; hence, it is a target for cancer therapy.
Protein Classification	Transferase
Structure Weight	54544.60 Da
PDBID	1Q4O
Method	X-Ray Diffraction
Resolution	2.20 Å
Reference	Cheng KY, Lowe ED, Sinclair J, Nigg EA, Johnson LN. The crystal structure of the human polo-like kinase-1 polo box domain and its phospho-peptide complex. Embo J. (2003) 22 p.5757

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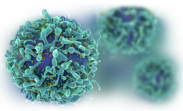

cDNALength	1809

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.

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