



PLK3 Protein Crystal

Catalog: CBCRY55

PRODUCT INFORMATION

Name	PLK3 Protein Crystal
Cat No.	CBCRY55
Fragment	Polo box domain
Protein Description	Polo-like Kinase 3
Background	<p>Polo-like kinase 3 (PLK3) is a member of the highly conserved polo-like kinase family of serine/threonine kinases that are critical regulators of cell cycle progression, mitosis, cytokinesis, and the DNA damage response. Members of this family are characterized by an amino-terminal kinase domain and a carboxy-terminal bipartite polo box domain that functions as a substrate-binding motif and a cellular localization signal. This gene has also been implicated in stress responses and double-strand break repair. In human cell lines, this protein is reported to associate with centrosomes in a microtubule-dependent manner, and during mitosis, the protein becomes localized to the mitotic apparatus.</p>
Protein Classification	Transferase
Structure Weight	32791.14 Da
Method	X-Ray Diffraction
Resolution	1.90 Å
Ligand Chemical Component	SULFATE ION, 9ZP
Reference	<p>Brown K, Charrier JD, Durrant S, Griffiths M, Hudson C, Kay D, Knegt R, Odonnell M, Pierard F, Twin H, Weber P, Young S. Discovery of oral polo-like kinase (Plk) inhibitors with enhanced selectivity profile using residue targeted drug design. No recorded citation in PubMed</p>