



PLK1 Protein Crystal

Catalog: CBCRY53

PRODUCT INFORMATION

Name PLK1 Protein Crystal

Cat No. 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

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