



PAK1 Protein Crystal

Catalog: CBCRY51

PRODUCT INFORMATION

Product Name	PAK1 Protein Crystal
Catalog Number	CBCRY51
Fragment	Autoregulatory domain (Residues 70-149) and Kinase domain (Residues 249-545)
Protein Description	P21/Cdc42/Rac1-activated kinase 1
Background	p21 protein (Cdc42/Rac)-activated kinase 1 belongs to the family of serine/threonine p21-activating kinases, known as PAK proteins. These proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling, and they serve as targets for the small GTP binding proteins Cdc42 and Rac. Protein kinase regulates cell motility and morphology, and plays an important role in cytoskeleton dynamics, in cell adhesion, migration, proliferation, apoptosis, mitosis, and in vesicle-mediated transport processes.
Protein Classification	Transferase
Structure Weight	88460.94 Da
PDBID	1F3M
Method	X-Ray Diffraction
Resolution	2.30 Å



Ligand Chemical Component	IODIDE ION
Reference	Lei M, Lu W, Meng W, Parrini MC, Eck MJ, Mayer BJ, Harrison SC. Structure of pak1 in an autoinhibited conformation reveals a multistage activation switch. Cell(Cambridge,Mass.) (2000) 102 p.387
cDNA Length	1635

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.