



MARK3 Protein Crystal

Catalog: CBCRY42

PRODUCT INFORMATION

Product Name	MARK3 Protein Crystal
Catalog Number	CBCRY42
Fragment	Kinase and Ubiquitin-associated domains
Protein Description	MAP/microtubule Affinity-regulating Kinase 3
Background	The protein encoded by MARK3 is activated by phosphorylation and in turn is involved in the phosphorylation of tau proteins MAP2 and MAP4. Microtubule affinity-regulating kinase 3 phosphorylates CDC25C on 'Ser-216'. It regulates localization and activity of some histone deacetylases by mediating phosphorylation of HDAC7, promoting subsequent interaction between HDAC7 and 14-3-3 and export from the nucleus.
Protein Classification	Transferase
Structure Weight	75337.80 Da
PDBID	2QNJ
Method	X-Ray Diffraction
Resolution	2.70 Å
Reference	Murphy, J.M., Korzhnev, D.M., Ceccarelli, D.F., Briant, D.J., Zarrine-Afsar, A., Sicheri, F., Kay, L.E., Pawson, T. Conformational instability of the MARK3 UBA domain compromises ubiquitin recognition and promotes interaction with the adjacent kinase domain. (2007) Proc.Natl.Acad.Sci.Usa 104: 14336-14341



cDNA Length	2259
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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.