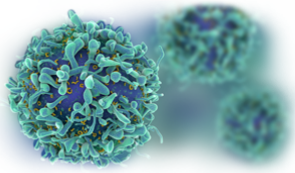

MARK3 Protein Crystal

Catalog: CBCRY42

PRODUCT INFORMATION

Name	MARK3 Protein Crystal
Cat No.	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
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

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