

WDR5 Protein Crystal

Catalog: CBCRY09

PRODUCT INFORMATION

Name	WDR5 Protein Crystal
Cat No.	CBCRY09
Fragment	Residues 24-334
Protein Description	WD-repeat protein 5
Background	The WD40 repeat protein WDR5 specifically associates with the K4-methylated histone H3 in human cells. The estructure of WDR5 in complex with a dimethylated H3-K4 peptide was deterimined. Unlike the chromodoma in that recognizes the methylated H3-K4 through a hydrophobic cage, the specificity of WDR5 for methylated H3-K4 is conferred by the nonconventional hydrogen bonds between the two zeta-methyl groups of the dimethylated Lys4 and the carboxylate oxygen of Glu322 in WDR5. The three amino acids Ala-Arg-Thr preceding Lys4 form most of the specific contacts with WDR5, with Ala1 forming intermolecular hydrogen bonds and salt bridges, and the side chain of Arg2 inserting into the central channel of WDR5.
Protein Classification	Structural protein and DNA binding protein
Structure Weight	35306.44 Da
Method	X-Ray Diffraction
Resolution	2.7 Å
Reference	Han Z, Guo L, Wang H, Shen Y, Deng XW, Chai J. Structural basis for the specific recognition of methylated histone H3 lysine 4 by the WD-40 protein WDR5. Mol. Cell 2006, 22(1):137-44.

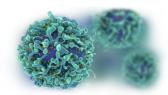
USAGE GUIDELINES

General	Avoid excessive mixing or shocking to prevent aggregation. Long term storage above -80°C may result in aggr
General	egate formation.
Storago	Short term: $+2^{\circ}$ C to $+8^{\circ}$ C
Storage	Long term: -80°C

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Stability n.a.

Freezing Can be frozen, but avoid multiple freeze/thaw cycles.

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