



MAD2 with p31 Protein Crystal

Catalog: CBCRY03

PRODUCT INFORMATION

Product Name	MAD2 with p31 Protein Crystal
Catalog Number	CBCRY03
Fragment	Full length Residues 36-274
Protein Description	Mad2 complexed with p31(comet)
Background	The crystal structure of the Mad2-p31(comet) complex is reported. The C-terminal region of Mad2 that undergoes rearrangement in different Mad2 conformers is a major structural determinant for p31(comet) binding, explaining the specificity of p31(comet) toward Mad1- or Cdc20-bound Mad2. p31(comet) adopts a fold strikingly similar to that of Mad2 and binds at the dimerization interface of Mad2. Thus, p31(comet) exploits the two-state behavior of Mad2 to block its activation by acting as an "anti-Mad2."
Protein Classification	cell cycle
Structure Weight	105471.24 Da
PDBID	2QYF
Method	X-Ray Diffraction
Resolution	2.30 Å
Reference	Yang, M., Li, B., Tomchick, D.R., Machius, M., Rizo, J., Yu, H., Luo, X. p31comet blocks Mad2 activation through structural mimicry.Cell(Cambridge,Mass.)2007; 131: 744-755



cDNA Length	630 (MAD2)804 (MAD2L1BP)
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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.