

Mad2-p31(comet) complex

Cat. No. CBCRY03 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Source	E.coli
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
Polymer	1
Molecule	Mitotic spindle assembly checkpoint protein MAD2A
Chain Length	210 amino acids
PDB ID	2QYF
Method	X-Ray Diffraction

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Resolution	2.30 Å
Modified residues	selenomethionine (pareint: MET)
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

GENE INFORMATION

Gene Name	MAD2L1
Synonyms	HSMAD2; MAD2; MAD2 (mitotic arrest deficient, yeast, homolog)-like 1; MAD2-like 1; MAD2-like protein 1; mitotic arrest deficient, yeast, homolog-like 1
UniProt ID	Q13257
Chromosome Location	4q27
Function	protein binding
Gene ID	9587

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA