

## Mitotic arrest deficient 2

Cat. No. CBCRY02    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

|                        |                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source                 | E.coli                                                                                                                                                                                                                                  |
| Background             | MAD2 (mitotic arrest deficient 2) is one of the kinetochore protein present on the chromosome during cell division. It is involved in making sure all chromosomes are attached to the mitotic spindle before the beginning of anaphase. |
| Protein Classification | Cell Cycle                                                                                                                                                                                                                              |
| Structure Weight       | 288687.00 Da                                                                                                                                                                                                                            |
| Polymer                | 1                                                                                                                                                                                                                                       |
| Molecule               | Mitotic Spindle assembly checkpoint protein MAD2A                                                                                                                                                                                       |
| Chain Length           | 206 amino acids                                                                                                                                                                                                                         |
| PDB ID                 | 2VFX                                                                                                                                                                                                                                    |
| MMDB ID                | 63130                                                                                                                                                                                                                                   |
| Method                 | X-Ray Diffraction                                                                                                                                                                                                                       |
| Resolution             | 1.95 Å                                                                                                                                                                                                                                  |

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**Ligand Chemical Component**

Chloride ion, Magnesium ion, PE3, PE4, PEG

**Reference**

Yang, M., Li, B., Liu, C.-J., Tomchick, D.R., Machius, M., Rizo, J., Yu, H., Luo, X. (2008) Insights Into MAD2 Regulation in the Spindle Checkpoint Revealed by the Crystal Structure of the Symmetric MAD2 Dimer. Plos Biol. 6: E50

## 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](#)

**Gene ID**

[4085](#)

**Chromosome Location**

4q27

**Function**

protein binding

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