

Mitotic Arrest Deficient 2

Human, MAD2 dimer

Expressed in *E.Coli*

Cat. No. CBCRY02

Lot. No. (See product label)

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.

MOLECULAR DESCRIPTION

Protein classification: Cell Cycle

Structure Weight: 288687.00 Da

Polymer: 1

Molecule: Mitotic Spindle assembly checkpoint protein MAD2A

Chains: A, B, C, D, E, F, G, H, I, J, K, L

Type: polypeptide (L)

Chain Length: 206 amino acids

Fragments: full length

CRYSTAL INFORMATION

PDB ID: [2VFX](#)

MMDB ID: [63130](#)

Source: E. Coli

Method: X-Ray Diffraction

Resolution: 1.95 Å

Ligand Chemical Component: Chloride ion; Magnesium ion; PE3; PE4; PEG

PRIMARY CITATION

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

FOR RESEARCH USE ONLY

CRYSTAL STRUCTURE



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; Mitotic spindle assembly checkpoint protein MAD2A; MAD2 mitotic arrest deficient-like 1 (yeast); Mitotic spindle assembly checkpoint protein MAD2A

UniProt ID: [Q13257](#)

GeneID: [4085](#)

Chromosome Location: 4q27

Function: protein binding

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45-16 Ramsey Road Shirley, NY 11967, USA
Tel: 1-866-588-6325 · Fax: 1-631-207-8356
E-mail: info@creative-biostructure.com
www.creative-biostructure.com