

Mitotic checkpoint serine/threonine-protein kinase BUB1

Cat. No. CBCRY01 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Source	S.frugiperda
Background	The kinase(BUB1) functions in part by phosphorylating a member of the mitotic checkpoint complex and activating the spindle checkpoint. Mutations in this gene have been associated with aneuploidy and several forms of cancer.
Protein Classification	Transferase
Structure Weight	42450.29 Da
Polymer	1
Molecule	Mitotic checkpoint serine/threonine-protein kinase BUB1
Chain Length	365 amino acids
PDB ID	3E7E
MMDB ID	68144
Method	X-Ray Diffraction
Resolution	2.31Å

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Ligand Chemical Component

Adenosine-5"-triphosphate; chloride ion; Magnesium ion

Reference

Kang J, Yang M, Li B, Qi W, Zhang C, Shokat KM, Tomchick DR, Machius M, Yu H. Structure and substrate recruitment of the human spindle checkpoint kinase Bub1. Mol Cell. 2008 Nov 7;32(3):394-405.

GENE INFORMATION

Gene Name

BUB1

Synonyms

BUB1A, BUB1L, hBUB1, BUB1 budding uninhibited by benzimidazoles 1 homolog; budding uninhibited by benzimidazoles 1; mitotic spindle checkpoint kinase; putative serine/threonine-protein kinase

UniProt ID

O43683

Gene ID

699

Chromosome Location

2q14

Function

nucleotide binding; protein kinase activity; protein serine/threonine kinase activity ; ATP binding; kinase activity; transferase activity

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