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 miotic 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

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

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

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