

## Recombinant Human BUB3, His-tagged

**Cat. No.** BUB3-7229H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human BUB3 protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>description</b>	Mitotic checkpoint protein BUB3, also known as BUB3, is a conserved component of the mitotic spindle assembly complex (MCC). The encoded protein contains four WD repeat domains and has sequence similarity with the yeast BUB3 protein. BUB3 is essential for the kinetochore localization of BUB1 and BUBR1. BUB3 is involved in the essential spindle checkpoint pathway that operates during early embryogenesis. In addition, BUB3 plays a role in regulating the establishment of correct kinetochore-microtubule attachments.
<b>source</b>	E. coli
<b>species</b>	Human
<b>tag</b>	His
<b>form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>molecular mass</b>	39.5 kDa (351aa)

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**aa sequence**

MGSSHHHHHH SSGLVPRGSH MGSMTGSNEF KLNQPPEDGI SSVKFSPNTS  
 QFLLVSSWDT SVRLYDVPAN SMRLKYQHTG AVLDCAFYDP THAWSGGLDH  
 QLKMHDLNTD QENLVGTHDA PIRCVEYCPE VNVMTGSDW QTVKLWDPRT  
 PCNAGTFSQP EKVYTLSVSG DRLIVGTAGR RVLVWDLRNM GYVQQRRESS  
 LKYQTRCIRA FPNKQGYVLS SIEGRVAVEY LDPSPEVQKK KYAFKCHRLK  
 ENNIEQIYPV NAISFHNHNF TFATGGSDGF VNIWDPFNKK RLCQFHRYPT  
 SIASLAFSND GTTLAIASSY MYEMDDTEHP EDGIFIRQVT DAETKPKSPC T

**purity** >85% by SDS - PAGE

**applications** SDS-PAGE

**storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**concentration** 1 mg/ml

## GENE INFORMATION

**gene name** [BUB3 budding uninhibited by benzimidazoles 3 homolog \(yeast\) \[ Homo sapiens \]](#)

**official symbol** BUB3

**synonyms** BUB3; budding uninhibited; BUB3 (budding uninhibited by benzimidazoles 3, yeast) homolog; mitotic checkpoint protein BUB3; BUB3L; mitotic checkpoint component; budding uninhibited by benomyl; BUB3 budding uninhibited by benzimidazoles 3 homolog; hBUB3;

**Gene ID** [9184](#)

**mrna refseq** [NM\\_001007793](#)

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<b>protein refseq</b>	NP_001007794
<b>mim</b>	603719
<b>uniprot id</b>	O43684
<b>chromosome location</b>	10q24
<b>pathway</b>	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem;
<b>function</b>	protein binding;

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