

Bioactive

Full-Length

BUB1/BUB3 (Human) Recombinant Protein

Catalog # P6474

Size 5 ug

Applications

Result of activity analysis

Result of activity analysis

□

Specification

Product Description	Human BUB1/BUB3 (NP_004327/NP_004716) full length recombinant protein with GST/DYKDDDD K-tag at N-terminal using baculovirus expression system.
Host	Viruses
Form	Liquid
Preparation Method	Baculovirus expression system.
Purification	Glutathione sepharose chromatography.
Purity	0.7
Activity	The activity was measured by off-chip mobility shift assay (MSA). The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by MSA device. Substrate: H2A peptide, ATP: 100 uM.
Quality Control Testing	The purity was assessed by SDS-PAGE/CBB staining.
Storage Buffer	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
Storage Instruction	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Result of activity analysis
Result of activity analysis

Applications

- Functional Study

Gene Info — BUB1

Entrez GeneID	699
Protein Accession#	NP_004327;NP_004716
Gene Name	BUB1
Gene Alias	BUB1A, BUB1L, hBUB1
Gene Description	budding uninhibited by benzimidazoles 1 homolog (yeast)
Omim ID	602452
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a kinase involved in spindle checkpoint function. The kinase 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. [provided by RefSeq]
Other Designations	BUB1 budding uninhibited by benzimidazoles 1 homolog budding uninhibited by benzimidazoles 1 mitotic spindle checkpoint kinase putative serine/threonine-protein kinase

Gene Info — BUB3

Entrez GeneID	9184
Protein Accession#	NP_004327;NP_004716
Gene Name	BUB3
Gene Alias	BUB3L, hBUB3
Gene Description	budding uninhibited by benzimidazoles 3 homolog (yeast)
Omim ID	603719

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes a protein involved in spindle checkpoint function. The encoded protein contains four WD repeat domains and has sequence similarity with the yeast BUB3 protein. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

Other Designations

BUB3 budding uninhibited by benzimidazoles 3 homolog|OTTHUMP00000020679|OTTHUMP0000020680|budding uninhibited by benomyl|budding uninhibited by benzimidazoles 3|mitotic checkpoint component

Pathway

- [Cell cycle](#)
- [Cell cycle](#)

Disease

- [Alcoholism](#)
- [Breast cancer](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Conduct Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)

- [Thrombophilia](#)
- [Tobacco Use Disorder](#)