

Recombinant Human HUS1, His-tagged

Cat. No. HUS1-3364H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HUS1 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 33.8 kDa (300aa).
Species	Human
Source	E.coli
Description	HUS1 is a component of an evolutionarily conserved, genotoxin-activated checkpoint complex. This protein associates with Rad9 and Rad1 to form the 9-1-1(RAD9-RAD1-HUS1) complex, which localizes to DNA lesions and promotes DNA damage signaling and repair or apoptosis, cell cycle arrest. The trimeric complex is structurally similar to the proliferating cell nuclear antigen (PCNA) sliding clamp and interacts with Rad17 as a clamp-clamp loader pair during the DNA damage response.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 100 mM NaCl, 40% Glycerol.
Purity	> 95% by SDS - PAGE.
Concentration	0.25mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MKFRAKIVDG ACLNHFTRIS NMIAKLAKTC TLRIS PDKLN FILCDKLANG GVSMWCELEQ ENFFNEFQMEGVSAENNEIY LEITSENLSR ALKTA QNARA LKIKLTNKH F PCLTVSVELL SMSSSSRIVT HDIPIKVIPR KLWK DLQEPV VPDPDVSIYLPVLKTMKSVV EKMKNISNHL VIEANLDGEL NLKIETELVC VTTHF KDLGN PPLASESTHE DRNVEHMAEV HIDIRKLLQF LAGQQV NPTKAL

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CNIVNNKM VHFDLLHEDV SLQYFIPALS.

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.

Pathways

Cell Cycle Checkpoints

GENE INFORMATION

Gene Name

[HUS1](#) [HUS1 checkpoint homolog \(S. pombe\) \[Homo sapiens \]](#)

Synonyms

HUS1 checkpoint homolog (S. pombe); HUS1; checkpoint protein HUS1; hHUS1; hus1+-like protein; OTTHUMP00000208365 ; OTTHUMP00000208366; OTTHUMP00000208378; HUS1 (S. pombe) checkpoint homolog

Gene ID

[3364](#)

mRNA Refseq

[NM_004507](#)

Protein Refseq

[NP_004498](#)

MIM

[603760](#)

UniProt ID

[O60921](#)

Chromosome Location

7p13-p12

Function

protein binding; protein serine/threonine kinase activity

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