

Recombinant Human HUS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HUS1-1572H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HUS1 MS Standard C13 and N15-labeled recombinant protein (NP_004498) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a component of an evolutionarily conserved, genotoxin-activated checkpoint complex that is involved in the cell cycle arrest in response to DNA damage. This protein forms a heterotrimeric complex with checkpoint proteins RAD9 and RAD1. In response to DNA damage, the trimeric complex interacts with another protein complex consisting of checkpoint protein RAD17 and four small subunits of the replication factor C (RFC), which loads the combined complex onto the chromatin. The DNA damage induced chromatin binding has been shown to depend on the activation of the checkpoint kinase ATM, and is thought to be an early checkpoint signaling event. Alternative splicing results in multiple transcript variants.
Molecular Mass	31.7 kDa
AA Sequence	MKFRKIVDGAACLNHFTRISNMIKLAKTCTLRISPDKLNFILCDKLANGGVSMWCEL EQENFFNEFQMEGVSAENNEIYLELTSENLSRALKTAQNARALKIKLTNKHFPCLTVS VELLSMSSSSRIVTHDIPKIVIPRKLWKDLQEPVVPDPDVSIIYLPVLKTMKSVVEKMKN

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ISNHLVIEANLDGELNLKIETELVCVTTHFKDLGNPPLASESTHEDRNVEHMAEVHIDI
RKLLQFLAGQQVNP TKALCNIVNNKMVHFDLLHEDVSLQYFIPALSTRTRPLEQKLIS
EEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name HUS1 HUS1 checkpoint clamp component [Homo sapiens (human)]

Official Symbol HUS1

Synonyms HUS1; HUS1 checkpoint homolog (S. pombe); HUS1 (S. pombe) checkpoint homolog; checkpoint protein HUS1; hus1+ like protein; hus1+-like protein; hHUS1;

Gene ID 3364

mRNA Refseq NM_004507

Protein Refseq NP_004498

MIM 603760

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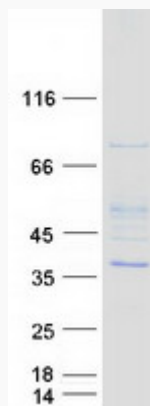
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UniProt ID

O60921

SDS-PAGE

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