

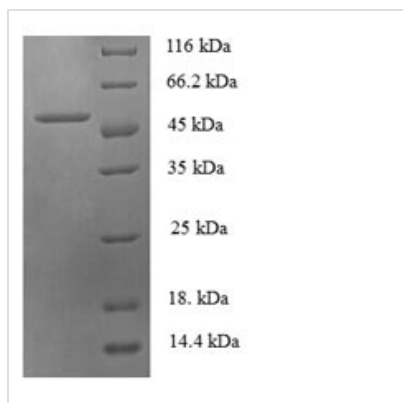


Recombinant Human Checkpoint protein HUS1 (HUS1), partial

Product Code	CSB-EP010909HU
Relevance	Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair. The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex. Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER). The 9-1-1 complex stimulates DNA polymerase beta (POLB) activity by increasing its affinity for the 3'-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds; endonuclease FEN1 cleavage activity on substrates with double, nick, or gap flaps of distinct sequences and lengths; and DNA ligase I (LIG1) on long-patch base excision repair substrates. The 9-1-1 complex is necessary for the recruitment of RHO1 to sites of double-stranded breaks (DSB) occurring during the S phase.
Abbreviation	Recombinant Human HUS1 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O60921
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	KFRAKIVDGAACLNHFTRISNMIKLAKTCTLRISPDKLNFILCDKLANGGVSMWC ELEQENFFNEFQMEGVSAENNEIYLELTSENLSRALKTAQNARALKIKLTKHF PCLTVSVELLSMSSSRIVTHDIPIKVIPRKLWKDLQEPVVPDPDVSIIYLPVLKT MKSVEKMKNISNHLVIEANLDGELNLKIETELVCVTTHFKDLGNPPLASESTH EDRNVEHMAEVHIDIRKLLQFLAGQQVNPTKALCNIVNNKMHVFDLLHEDVSL QYFIPALS
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	HUS1
Expression Region	2-280aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	47.6kDa

**Protein Length**

Partial

Image

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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