



# Recombinant Human Double-strand-break repair protein rad21 homolog (RAD21)

<b>Product Code</b>	CSB-MP019257HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O60216
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MFYAHFVLSK RGPLAKIWLA AHWDKCLKTKA HVFECNLESS VESIISPKVK MALRTSGHLL LGVVRIYHRK AKYLLADCNE AFIKIKMAFR PGVVDLPEEN REAYNAITL PEEFHDFDQP LPDLLDDIDVA QQFSLNQSRV EEITMREEVG NISILQENDF GDFGMDDREI MREGSAFEDD DMLVSTTTSN LLESEQSTS NLNEKINHLE YEDQYKDDNF GEGNDGGILD DKLISNNDGG IFDDPPALSE AGVMLPEQPA HDDMDEDDNV SMGGPDSPDS VDPVEPMPTM TDQTTLPVNE EEAFALEPID ITVKETKAKR KRKLIVDSVK ELDSKTIRAQ LSDYSDIVTT LDLAPTKKL MMWKETGGVE KLFSLPAQPL WNNRLLKLFT RCLTPLVPED LRKRRKGGEA DNLDEFLEKE ENPEVPREDQ QQHQQRDVI DEPIIEEPSR LQESVMEASR TNIDESAMPP PPPQGVKRKA GQIDPEPVMP PQQVEQMEIP PVELPPEEPP NICQLIPELE LLPEKEKEKE KEKEDDEEEE DEDASGGDQD QEERRWNKRT QQMLHGLQRA LAKTGAESIS LLELCRNTNR KQAAAKFYSF LVLKKQQAIE LTQEEPYSI IATPGPRFHI I
<b>Source</b>	Mammalian cell
<b>Target Names</b>	RAD21
<b>Protein Names</b>	Recommended name: Double-strand-break repair protein rad21 homolog Short name= hHR21 Alternative name(s): Nuclear matrix protein 1 Short name= NXP-1 SCC1 homolog
<b>Expression Region</b>	1-631
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This protein is highly similar to the gene product of Schizosaccharomyces pombe rad21, a gene involved in the repair of DNA double-strand breaks, as well as in chromatid cohesion during mitosis. This protein is a nuclear phospho-protein, which becomes hyperphosphorylated in cell cycle M phase. The highly regulated association of this protein with mitotic chromatin specifically at the centromere region suggests its role in sister chromatid cohesion in mitotic cells.
<b>Reconstitution</b>	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**

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.