



# Recombinant Mouse DNA repair protein XRCC1 (Xrcc1)

|                          |   |
|--------------------------|---|
| <b>Product Code</b>      | CSB-BP726654MO  |
| <b>Abbreviation</b>      | Xrcc1   |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>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.  |
| <b>Uniprot No.</b>       | Q60596  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Mus musculus (Mouse)  |
| <b>Purity</b>            | ≥85% (SDS-PAGE)   |
| <b>Sequence</b>          | MPEISLRHVV SCSSQDSTHC AENLLKADTY RKWRAAKAGE KTISVVLQLE<br>KEEQIHSVDI GNDGSAFVEV LVGSSAGGAT AGEQDYEVLL VTSSFMSPSE<br>SRSGSNPNRV RIFGPKLVR AAAEKRWDRV KIVCSQPYSK DSPYGLSFVK<br>FHSPDKDEA EATSQKVTVT KLGQFRVKEE DDSANSLKPG ALFFSRINKT<br>SSASTSDPAG PSYAAATLQA SSAASSASPV PKVVGSSSKP QEPPKGKRKL<br>DLSLEDRKPP SKPSAGPSTL KRPKLSVPSR TPAAAPASTP AQRVPGKPR<br>GEGTEPRGAR TGPQELGKIL QGVVVVLSGF QNPFRSELRD KALELGAKYR<br>PDWTPDSTHL ICAFANTPKY SQVLGLGGRI VRKEWVLDCH HMRRRLPSRR<br>YLMAGLGSSS EDEGDSHSES GEDEAPKLPQ KRPQPKAKTQ AAGPSSPPRP<br>PTPKETKAPS PGPQDNSDTE GEESEGRDNG AEDSGDTEDE<br>LRRVAKQREQ RQPPAPEENG EDPYAGSTDE NTDSETPSEA DLPIPELPDF<br>FEGKHFFLYG EFPGDERRRL IRYVTAFNGE LEDYMNERVQ FVITAQEWDP<br>NFEEALMENP SLAFVRPRWI YSCNEKQKLL PHQLYGVVPQ A |
| <b>Source</b>            | Baculovirus   |
| <b>Target Names</b>      | Xrcc1   |
| <b>Protein Names</b>     | Recommended name: DNA repair protein XRCC1 Alternative name(s): X-ray repair cross-complementing protein 1  |
| <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 involved in the efficient repair of DNA single-strand breaks formed by exposure to ionizing radiation and alkylating agents. This protein interacts with DNA ligase III, polymerase beta and poly (ADP-ribose) polymerase to participate in the base excision repair pathway. It may play a role in DNA processing during meiosis and recombination in germ cells. A rare   |



microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity.

---

**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**

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.