

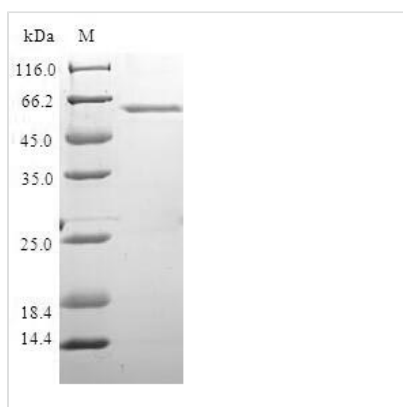


Recombinant Human DNA repair protein XRCC4 (XRCC4)

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|--------------------------|--|
| Product Code | CSB-EP614413HU |
| Relevance | Involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. Binds to DNA and to DNA ligase IV (LIG4). The LIG4-XRCC4 complex is responsible for the NHEJ ligation step, and XRCC4 enhances the joining activity of LIG4. Binding of the LIG4-XRCC4 complex to DNA ends is dependent on the assembly of the DNA-dependent protein kinase complex DNA-PK to these DNA ends. |
| Abbreviation | Recombinant Human XRCC4 protein |
| 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. | Q13426 |
| Alias | X-ray repair cross-complementing protein 4 |
| Product Type | Recombinant Protein |
| Immunogen Species | Homo sapiens (Human) |
| Purity | ≥ 90% as determined by SDS-PAGE. |
| Sequence | MERKISRHLVSEPSITHFLQVSWEKTLESGFVITLTDGHSAWTGTVSESEISQE ADDMAMEKGGKYVGELRKALLSGAGPADVYTFNFSKESCYFFFEKNLKDVSR LGSFNLEKVENPAEVIRELICyclDTIAENQAKNEHLQKENERLLRDWNDVQG RFEKCVSAKEALETDLYKRFILVLNEKTKIRSLHNKLLNAAQEREKDIKQEGET AICSEMTADRDPVYDESTDEESENQTDLSGLASAAVSKDDSISSLDVTDIAPS RKRRQRMQRNLGTEPKMAPQENQLQEKENSRPDSSLPETSKKEHISAENMSL ETLRNSSPEDLFDEI |
| Research Area | others |
| Source | E.coli |
| Target Names | XRCC4 |
| Protein Names | Recommended name: DNA repair protein XRCC4 Alternative name(s): X-ray repair cross-complementing protein 4 |
| Expression Region | 1-336aa |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Tag Info | N-terminal GST-tagged |
| Mol. Weight | 65.3kDa |
| Protein Length | Full Length |



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

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.