



# Recombinant Human DNA topoisomerase 1 (TOP1)

<b>Product Code</b>	CSB-EP024056HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P11387
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	SGDHLHNDS QIADFRLND SHKHKDKHKD REHRHKEHKK EKDREKSKHS NSEHKDSEKK HKEKEKTKHK DGSSEKHKDK HKDRDKEKRK EEKVRASGDA KIKKEKENG F SSPPQIKDEP EDDGYFVPPK EDIKPLKRPR DEDDADYKPK KIKTEDTKKE KKRKLEEEED GKLKPKPKND KDKKVPEPDN KKKKPKKEEE QKWKWWEER YPEGIKWKFL EHKGPVFAPP YEPLPENVKF YYDGKVMKLS PKAEVATFF AKMLDHEYTT KEIFRKNFFK DWRKEMTNEE KNIITNLSKC DFTQMSQYFK AQTEARKQMS KEEKLKIKEE NEKLLKEYGF CIMDNHKERI ANFKIEPPGL FRGRGNHPKM GMLKRRIMPE DIIINCSKDA KVPSPPPGHK WKEVRHDNKV TWLVSWTENI QGSIKYIMLN PSSRIKGEKD WQKYETARRL KKCVDKIRNQ YREDWKSSEM KVRQRAVALY FIDKLALRAG NEKEEGETAD TVGCCSLRVE HINLHPELDG QEYVVEFDL GKDSIRYYNK VPVEKRVFKN LQLFMENKQP EDDLFDRLNT GILNKHLQDL MEGLTAKVFR TYNASITLQQ QLKELTAPDE NIPAKILSYN RANRAVAILC NHQRAPPKTF EKSMMLNQT IDAKKEQLAD ARRDLSAKA DAKVMKDAKT KKVVESKKA VQRLEEQLMK LEVQATDREE NKQIALGTSK LNYLDPRITV AWCKKWGVPI EKIYNKTQRE KFAWAIDMAD EDYEF
<b>Source</b>	E.coli
<b>Target Names</b>	TOP1
<b>Protein Names</b>	Recommended name: DNA topoisomerase 1 EC= 5.99.1.2 Alternative name(s): DNA topoisomerase I
<b>Expression Region</b>	2-765
<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 of Mature Protein
<b>Target Details</b>	This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This enzyme catalyzes the transient breaking and rejoining of a single strand of DNA which allows the strands to pass through one another, thus altering the topology of DNA. This gene is localized to chromosome 20 and has pseudogenes which reside on chromosomes 1 and 22.



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**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.

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**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.