



Recombinant Human DNA topoisomerase 1 (TOP1)

Product Code	CSB-MP024056HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P11387
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	<pre>SGDHLHNSD QIADFRLND SHKHKDKHKD REHRHKEHKK EKDREKSKHS NSEHKDSEKK HKEKEKTKHK DGSSEKHKDK HKDRDKEKRR EEKVRASGDA KIKKEKENG FSSPPQIKDEP 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 YREDWWSKEM KVRQRAVALY FIDKLALRAG NEKEEGETAD TVGCCSLRVE HINLHPELDG QEYVVEFDL GKDSIRYYNK VPVEKRVFKN LQLFMENKQP EDDLFDRLNT GILNKLQDL MEGLTAKVFR TYNASITLQQ QLKELTAPDE NIPAKILSYN RANRAVAILC NHQRAPPKTF EKSMMLNLTQK IDAKKEQLAD ARRDLSAKA DAKVMKDAKT KKVVESKKA VQRLEEQLMK LEVQATDREE NKQIALGTSK LNYLDPRITV AWCKKWGVPI EKIYNKTQRE KFAWAIDMAD EDYEF</pre>
Source	Mammalian cell
Target Names	TOP1
Protein Names	Recommended name: DNA topoisomerase 1 EC= 5.99.1.2 Alternative name(s): DNA topoisomerase I
Expression Region	2-765
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.



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.