Recombinant Human DNA excision repair protein ERCC-1 (ERCC1)

Product Code	CSB-EP007769HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P07992
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MDPGKDKEGV PQPSGPPARK KFVIPLDEDE VPPGVAKPLF RSTQSLPTVD TSAQAAPQTY AEYAISQPLE GAGATCPTGS EPLAGETPNQ ALKPGAKSNS IIVSPRQRGN PVLKFVRNVP WEFGDVIPDY VLGQSTCALF LSLRYHNLHP DYIHGRLQSL GKNFALRVLL VQVDVKDPQQ ALKELAKMCI LADCTLILAW SPEEAGRYLE TYKAYEQKPA DLLMEKLEQD FVSRVTECLT TVKSVNKTDS QTLLTTFGSL EQLIAASRED LALCPGLGPQ KARRLFDVLH EPFLKVP
Source	E.coli
Target Names	ERCC1
Protein Names	Recommended name: DNA excision repair protein ERCC-1
Expression Region	1-297
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 protein
Target Details	The product of this gene functions in the nucleotide excision repair pathway, and is required for the repair of DNA lesions such as those induced by UV light or formed by electrophilic compounds including cisplatin. The encoded protein forms a heterodimer with the XPF endonuclease (also known as ERCC4), and the heterodimeric endonuclease catalyzes the 5 incision in the process of excising the DNA lesion. The heterodimeric endonuclease is also involved in recombinational DNA repair and in the repair of inter-strand crosslinks. Mutations in this gene result in cerebrooculofacioskeletal syndrome, and polymorphisms that alter expression of this gene may play a role in carcinogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. The last exon of this gene overlaps with the CD3e molecule, epsilon associated protein gene on the opposite strand.
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.