

Recombinant Human ERCC1, His-tagged

Cat. No. ERCC1-6778H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanERCC1 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography.
Species	Human
Source	E.coli
Description	ERCC1, also known asDNA excision repair protein ERCC-1, functions in the nucleotide excisionrepair pathway, and is required for the repair of DNA lesions such as thoseinduced by UV light or formed by electrophilic compounds including cisplatin.Defects in ERCC1 are the cause of cerebro-oculo-facio-skeletal syndrome type4 (COFS4).
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT
Molecular Weight	32.5 kDa (297aa),confirmed by MALDI-TOF
Purity	> 90% by SDS -PAGE
Concentration	0.5 mg/ml(determined by Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSMDPGKD KEGVPQPSGP PARKKFVIPL DEDEVPPGVA KPLFRSTQSL PTVDTSAQAAPQTYAEY AIS QPLEGAGATC PTGSEPLAGE TPNQALKPGA KSNSIIVSPR QRGNPVLKFV RNVPWEFGDVIPDYVLGQST CALFLSLRYH NLHPDYIHGR LQSLGKNFAL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RVLLVQVDVK DPQQALKELA KMCILADCTLILAWSPEEAG RYLETYKAYE
QKPADLLMEK LEQDFVSRSL EQLIAASRED LALCPGLGPQ
KARRLFDVLHEPFLKVP

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

ERCC1 excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence) [Homo sapiens]

Official Symbol

ERCC1

Synonyms

ERCC1; excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence); DNA excision repair protein ERCC-1; RAD10

Gene ID

2067

mRNA Refseq

NM_001166049

Protein Refseq

NP_001159521

MIM

126380

Uniprot ID

P07992

Chromosome Location

19q13.32

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Pathway DNA Repair, organism-specific biosystem; Dual incision reaction in GG-NER, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem; Fanconi anemia pathway, organism-specific biosystem; Fanconi anemia pathway, conserved biosystem

Function damaged DNA binding; damaged DNA binding; endonuclease activity; hydrolase activity; protein C-terminus binding

PDB rendering based on 1z00.

