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 MGSHMDPGKD KEGVPQPSGP PARKKFVIPL DEDEVPPGVA KPLFRSTQSL PTVDTSAQAAPQTYAEYAIS QPLEGAGATC PTGSEPLAGE TPNQALKPGA KSNSIIVSPR QRGNPVLKFV RNVPWEFGDVIPDYVLGQST CALFLSLRYH NLHPDYIHGR LQSLGKNFAL

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	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	ERCC1excision repair cross-complementing rodent repair deficiency, complementationgroup 1 (includes overlapping antisense sequence) [Homo sapiens]
Official Symbol	ERCC1
Synonyms	ERCC1; excision repaircross-complementing rodent repair deficiency, complementation group 1(includes overlapping antisense sequence); DNA excision repair proteinERCC-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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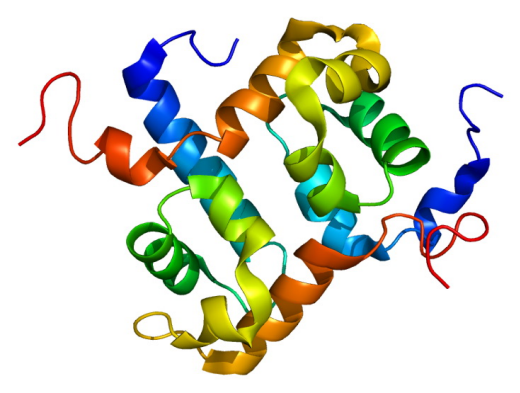
Pathway	DNA Repair, organism-specificbiosystem; Dual incision reaction in GG-NER, organism-specific biosystem;Dual incision reaction in TC-NER, organism-specific biosystem; Fanconi anemiapathway, organism-specific biosystem; Fanconi anemia pathway, conservedbiosystem
Function	damaged DNA binding; damaged DNAbinding; endonuclease activity; hydrolase activity; protein C-terminusbinding
PDB rendering based on 1z00.	

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