Recombinant Human ERCC5 protein, MYC/DDK-tagged

Cat. No. ERCC5-6563H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ERCC5, fussed with MYC/DDK tag at C-terminal, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a single-strand specific DNA endonuclease that makes the 3' incision in DNA excision repair following UV-induced damage. The protein may also function in other cellular processes, including RNA polymerase II transcription, and transcription-coupled DNA repair. Mutations in this gene cause xeroderma pigmentosum complementation group G (XP-G), which is also referred to as xeroderma pigmentosum VII (XP7), a skin disorder characterized by hypersensitivity to UV light and increased susceptibility for skin cancer development following UV exposure. Some patients also develop Cockayne syndrome, which is characterized by severe growth defects, mental retardation, and cachexia. Read-through transcription exists between this gene and the neighboring upstream BIVM (basic, immunoglobulin-like variable motif containing) gene.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	133.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Notes	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	ERCC5 excision repair cross-complementing rodent repair deficiency, complementation group 5 [Homo sapiens]
Official Symbol	ERCC5
Synonyms	ERCC5; excision repair cross-complementing rodent repair deficiency, complementation group 5; ERCM2, xeroderma pigmentosum, complementation group G , XPGC; DNA repair protein complementing XP-G cells; Cockayne syndrome; XPG-complementing protein; DNA excision repair protein ERCC-5; xeroderma pigmentosum, complementation group G; XPG; UVDR; XPGC; COFS3; ERCM2;
Gene ID	2073
mRNA Refseq	NM_000123
Protein Refseq	NP_000114
MIM	133530
UniProt ID	P28715
Chromosome Location	13q22-q34

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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; Formation of incision complex in GG-NER, organism-specific biosystem; Formation of transcription-coupled NER (TC-NER) repair complex, organism-specific biosystem; Global Genomic NER (GG-NER), organism-specific biosystem; Nucleotide Excision Repair, organism-specific biosystem;
Function	DNA binding; bubble DNA binding; double-stranded DNA binding; endodeoxyribonuclease activity; endonuclease activity; endonuclease activity; metal ion binding; protein N-terminus binding; protein binding; protein homodimerization activity; single-stranded DNA binding; single-stranded DNA binding;

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