

Recombinant Full Length Human ERCC5 Protein, C-Flag-tagged

Cat. No. ERCC5-1392HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ERCC5 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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, cognitive disability, 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
AA Sequence	MGVQGLWKLLECSGRQVSPEALEGKILAVDISIWLNQALKGVRDRHGNSIENPHLLT

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

LFHRLCKLLFFRI RPIFVFDGDAPLLKKQTLVKRRQRKDLASSDSRKTTEKLLKTFK
 RQAIKTAFRSKRDEALPSLTQVRRE NDLYVLPLQEEEEKHSSEEEDEKEWQERMN
 QKQALQEEFFHNPQAIDIESEDFSSLPPEVKHEILTDMKE FTKRRRTLFEAMPEESD
 DFSQYQLKGLLKKNYLNQHIEHVQKEMNQQHSGHIRRQYEDEGGFLKEVESRR VV
 SEDTSHYILIKGIQAKTVAEVDSESLPSSSKMHGMSFDVKSSPCEKLTEKEPDATPP
 SPRTLLAMQA ALLGSSEEELESENRRQARGRNAPAAVDEGSISPRTLSAIKRALDD
 DEDVKVCAGDDVQTGGPGAEEMR INSSTENSDEGLKVRDGGKIPFTATLASSSVN
 SAEHVASTNEGPREPTDSPVKEQMSLVHVGTEAFPISD ESMIKDRKDRLPLESAVV
 RHSDAPGLPNGRELTPASPTCTNSVSKNETHAEVLEQQNELCPYESKFDSSL LSSD
 DETKCKPNSASEVIGPVSLQETSSIVSVPSEAVDNVENVVSFNAKEHENFLETIQEQ
 QTTESAGQD LISIPKAVEPMEIDSEESDGSFIEVQSVISDEELQAEFPETSKPPSE
 QGEEELVGTREGEAPAESESL LRDNSERDDVDGEPQEAEKDAEDSLHEWQDINLE
 ELETLESNLLAQNSLKAQKQQQERIAATVTGQMFL ESQELLRLFGIPYIQAPMEAE
 AQCAILDLTQTS GTITDDSDIWLFGARHVYRNFFNKNKFVEYYQYVDF HNQLGLD
 RNKLINLAYLLGSDYTEGIPTVGCVTAMEILNEFPGHGLEPLLKFSEWWHEAQKNPKI
 RPNPH DTKVKKLRTLQLTPGFNPVAEAYLKPVVDDSKGSFLWGKPDLDKIREF
 CQRYFGWNRTKTDES LFPV LKQLDAQQTQLRIDSFFRLAQKEKEDAKRIKSQRLNR
 AVTCMLRKEKEAAASEIEAVSVAMEKEFELLDK AKRKTQKRGITNTLEESSSLKRKR
 LSDSKRKNTCGGFLGETCLSESSDGSSSEDAESSSLMNVQRRTAAK EPKTSASDS
 QNSVKEAPVKNGGATTSSSSSDSDDDGGKEKMLVLTARSVFGKKRRKLRRARGRKR
 KTTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.

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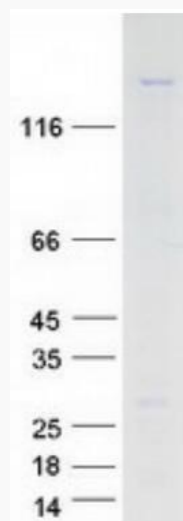
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Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways	Nucleotide excision repair
Full Length	Full L.
GENE INFORMATION	
Gene Name	ERCC5 ERCC excision repair 5, endonuclease [Homo sapiens (human)]
Official Symbol	ERCC5
Synonyms	XPG; UVDR; XPGC; COFS3; ERCCM2; ERCC5-201
Gene ID	2073
mRNA Refseq	NM_000123.4
Protein Refseq	NP_000114.3
MIM	133530
UniProt ID	P28715

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Coomassie blue staining of purified ERCC5 protein.

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