

Recombinant Human ERCC5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ERCC5-6126H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ERCC5 MS Standard C13 and N15-labeled recombinant protein (NP_000114) with a C-terminal MYC/DDK tag, 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, cognitive disability, and cachexia. Read-through transcription exists between this gene and the neighboring upstream BIVM (basic, immunoglobulin-like variable motif containing) gene.
Molecular Mass	133.3 kDa
AA Sequence	MGVQGLWKLLECSGRQVSPEALEGKILAVDISIWLNQALKGVRDRHGN SIENPHLLT LFHRLCKLLFFRIRPIFVFDGDAPLLKKQTLVKRRQRKDLASSDSRKTTEKLLKTF LKR

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QAIKTAFRSKRDEALPSLTQVRRENDLYVLPPLQEEEEKHSSEEEDEKEWQERMNQK
 QALQEEFFHNPQAIDIESEDFSSLPPEVKHEILTDMKEFTKRRRTLFEAMPEESDDFS
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 SHYILIKGIQAKTVAEVDSESLPSSSKMHGMSFDVKSSPCEKLKTEKEPDATPPSPRT
 LLAMQAALLGSSEEELESENRRQARGRNAPAAVDEGSISPRTL SAIKRALDDDEDV
 KVCAGDDVQTGGPGAEMRINSSTENSDEGLKVRDGKGIPFTATLASSSVNSAEEH
 VASTNEGREPTDSPKEQMSLVHVGTEAFPISDESMIKDRKDRLPLESAVVRHSDAP
 GLPNGRELTPASPTCTNSVSKNETHAEVLEQQNELCPYESKFDSSLLSSDDETKCK
 PNSASEVIGPVSLQETSSIVSVPSEAVDNVENVVSFNAKEHENFLETIQEQQTESAG
 QDLISIPKAVEPMEIDSEESDGSFIEVQSVISDEELQAEFPETSKPPSEQGEEELV
 GTREGEAPAESLRLDNSERDDVDGEPQEA EKDAEDSLHEWQDINLEELETLESN
 LLAQQNSLKAQKQQQERIAATVTGQMFLSQELLRLFGIPYIQAPMEAEAQCAILDLT
 DQTS GTITDDSDIWLFGARHVYRNFFNKNKFVEYYQYVDFHNQLGLDRNKLINLAYL
 LGSDYTEGIPTVGCVTAMEILNEFPGHGLEPLLKFSEWWHEAQKNPKIRPNPHDTKV
 KKKLRTLQLTPGFNP PAVAEAYLKPVVDDSKGSFLWGKPDLDKIREFCQRYFGWNR
 TKTDES LFPVLKQLDAQQTQLRIDSFFRLAQQE KEDAKRIKSQRLNRAVTCMLRKEK
 EAAASEIEAVSVAMEKEFELLDKAKRKTQKRGITNTLEESSSLKRKRLSDSKRKNTC
 GGFLGETCLSESSDGSSEDAESSSLMNVQRRTA AKEPKTSASDSQNSVKEAPVK
 NGGATTSSSSDSDDDGGKEKMVLVTARSVFGKKRRKLRRARGRKRKTTTRTRPLEQ
 KLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

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Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ERCC5 ERCC excision repair 5, endonuclease [Homo sapiens (human)]

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

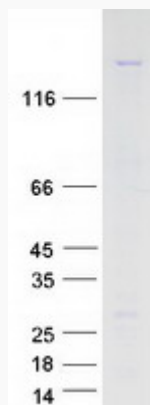
MIM 133530

UniProt ID P28715

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SDS-PAGE

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