

Recombinant Human ERCC5 293 Cell Lysate

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

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for excision repair cross-complementing rodent repair deficiency, complementation group 5 (ERCC5) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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
Pathway	DNA Repair, organism-specific biosystem; Dual incision reaction in GG-NER,

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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;