ERCC3 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	ERCC3, Lysate
Full Product Name	Human ERCC3 Protein Lysate
Product Gene Name	ERCC3 lysate
Product Synonym Names	ERCC3; BTF2; GTF2H; RAD25; TFIIH; TTD2; XPB
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	89,278 Da
OMIM	phenotype 610651
3D Structure	ModBase 3D Structure for P19447
Related Product Information for ERCC3 lysate	Human ERCC3 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of ERCC3 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ERCC3 purchase	MBS8411193 is a lysate targeting ERCC3. Also known as Human ERCC3 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ERCC3. It may not necessarily be applicable to this product.

NCBI GI #	4557563
NCBI GeneID	2071
NCBI Accession #	NP_000113
UniProt Primary Accession #	P19447
UniProt Secondary Accession #	Q53QM0
UniProt Related Accession #	P19447
GenBank Nucleotide #	NM_000122
NCBI Official Full Name	TFIIH basal transcription factor complex helicase XPB subunit isoform a
NCBI Official Synonym Full Names	excision repair cross-complementation group 3
NCBI Official Symbol	ERCC3
NCBI Official Synonym Symbols	XPB; BTF2; GTF2H; RAD25; TFIIH
UniProt Protein Name	TFIIH basal transcription factor complex helicase XPB subunit

UniProt Synonym Protein Names	Basic transcription factor 2 89 kDa subunit; BTF2 p89; DNA excision repair protein ERCC-3; DNA repair protein complementing XP-B cells; TFIIH basal transcription factor complex 89 kDa subunit; TFIIH 89 kDa subunit; TFIIH p89; Xeroderma pigmentosum group B-complementing protein
Protein Family	Probable DNA repair helicase
UniProt Gene Name	ERCC3
UniProt Synonym Gene Names	XPB; XPBC; BTF2 p89; TFIIH 89 kDa subunit; TFIIH p89
UniProt Entry Name	ERCC3_HUMAN
NCBI Protein Information	TFIIH basal transcription factor complex helicase XPB subunit; BTF2 p89; DNA excision repair protein ERCC-3; DNA repair helicase; DNA repair protein complementing XP-B cells; TFIIH 89 kDa subunit; TFIIH basal transcription factor complex 89 kDa subunit; T
UniProt Comments for ERCC3	XPB: ATP-dependent 3'-5' DNA helicase, component of the core- TFIIH basal transcription factor, involved in nucleotide excision repair (NER) of DNA and, when complexed to CAK, in RNA transcription by RNA polymerase II. Acts by opening DNA either around the RNA transcription start site or the DNA damage. One of the 6 subunits forming the core-TFIIH basal transcription factor which associates with the CAK complex composed of CDK7, CCNH/cyclin H and MNAT1 to form the TFIIH basal transcription factor. Interacts with PUF60. Interacts with ATF7IP. Interacts with Epstein-Barr virus EBNA2. Belongs to the helicase family. RAD25/XPB subfamily. Protein type: Helicase; DNA repair, damage; EC 3.6.4.12; Transcription factor Chromosomal Location of Human Ortholog: 2q21 Cellular Component: nucleoplasm; holo TFIIH complex; nucleus Molecular Function: protein C-terminus binding; DNA-dependent ATPase activity; GTP binding; ATPase activity; dATP binding; 3'-5' DNA helicase activity; protein N-terminus binding; peptide binding; transcription factor binding; protein kinase activity; ATP-dependent DNA helicase activity; RNA polymerase subunit kinase activity; protein binding; DNA binding; damaged DNA binding; ATP binding Biological Process: transcription from RNA polymerase II promoter; DNA topological change; viral reproduction; apoptosis; positive regulation of apoptosis; positive regulation of viral transcription; protein amino acid phosphorylation; regulation of gene expression, epigenetic; protein localization; mRNA capping; UV protection; negative regulation of gene expression, epigenetic; transcription-coupled nucleotide-excision repair; nucleotide-excision repair, DNA damage removal; response to UV; transcription initiation from RNA polymerase II promoter; hair cell differentiation; nucleotide-excision repair, DNA incision; RNA elongation from RNA polymerase I promoter; transcription from RNA polymerase I promoter; termination of RNA polymerase I transcription; DNA repair; nucleotide-excision repair, DNA duplex unwinding; nucleotide-excision repair; RNA elongation from RNA polymerase II promoter; response to hypoxia; gene expression; positive regulation of transcription from RNA polymerase II promoter; response to oxidative stress; transcription initiation from RNA polymerase I promoter Disease: Trichothiodystrophy 2, Photosensitive; Xeroderma Pigmentosum, Complementation Group B
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