DNA Repair Protein Xrcc4 (xrcc4) Dictyostelium Discoideum Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA repair protein xrcc4 (xrcc4), Recombinant Protein
Full Product Name	Recombinant Dictyostelium discoideum DNA repair protein xrcc4 (xrcc4)
Product Gene Name	xrcc4 recombinant protein
Product Synonym Gene Name	xrcc4
Sequence	MNESSVSRFE NITDDSGNTN GGFYYLKCNW QYNSFTIYLT DLTNVWSSNV TTKYIENILK PQGMSFDQYF QLLKKSLLKQ DQTKREFDYK IDKYKRKNNN NINNNNEDIE FIIIIILSEF DNINVKSSIP LIKLSNHFTT FQHYFDWLFD KYQSLSLQNQ TLTLQTQSLQ SQFNQSLEQN KLFQLEKDRI ESNLIEKFII ILNEKKKKIK EYKQPINNLL LEQKSISSSL SNCKCNNNNN NNNNKSIVNN NKNKSPSKQQ VYTTPKKKKR NYQSNLINID NDDDDDLGNN DNVNNINDEN DNDNDNDNEE DYKPTFNNST PPLLDLLSND YDSYYNVPTN VRKKFKPTPT LTTTTTTTTT TTTASIIKTP TKKRNSISPQ KSPHHHRNIN IKKNNNNNNP SSPMKKYNAN GTLIPNNNIN SLIPITPMKS KSKLFNFNDD DNHDIGASEL LNDL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	52,726 Da
Sequence Positions	1-454, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q54YJ7
Species	Dictyostelium discoideum (Slime mold)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for xrcc4 recombinant protein	MBS1423135 is a recombinant protein targeting xrcc4. Also known as Recombinant Dictyostelium discoideum DNA repair protein xrcc4 (xrcc4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of xrcc4 recombinant protein 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for xrcc4. It may not necessarily be applicable to this product.

NCBI GI #	66816391
NCBI GeneID	8621412
NCBI Accession #	XP_642205.1
UniProt Primary Accession #	Q54YJ7

GenBank Nucleotide #	XM_637113.1
NCBI Official Full Name	hypothetical protein DDB_G0278203
NCBI Official Symbol	xrcc4
UniProt Protein Name	DNA repair protein xrcc4
Protein Family	DNA repair protein
UniProt Gene Name	xrcc4
NCBI Protein Information	hypothetical protein
UniProt Comments for xrcc4	May be involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. Binds to DNA and to DNA ligase IV (lig4). The lig4-xrcc4 complex is responsible for the NHEJ ligation step, and xrcc4 enhances the joining activity of lig4. Binding of the lig4-xrcc4 complex to DNA ends is dependent on the assembly of the DNA-dependent protein kinase complex DNA-PK to these DNA ends ().
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