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XRCC2 Protein (AA 1-280) (His tag)



Image



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Quantity:	1 mg
Target:	XRCC2
Protein Characteristics:	AA 1-280
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This XRCC2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)
Product Details	
Sequence:	MCSAFHRAES GTELLARLEG RSSLKEIEPN LFADEDSPVH GDILEFHGPE GTGKTEMLYH
	LTARCILPKS EGGLEVEVLF IDTDYHFDML RLVTILEHRL SQSSEEIIKY CLGRFFLVYC
	SSSTHLLLTL YSLESMFCSH PSLCLLILDS LSAFYWIDRV NGGESVNLQE STLRKCSQCL
	EKLVNDYRLV LFATTQTIMQ KASSSSEEPS HASRRLCDVD IDYRPYLCKA WQQLVKHRMF
	FSKQDDSQSS NQFSLVSRCL KSNSLKKHFF IIGESGVEFC
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
	 Human XRCC2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
	State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made to order protein and will be made for the first time for your order. Our

experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	XRCC2
Alternative Name:	XRCC2 (XRCC2 Products)
Background:	Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. Part of the Rad21

	paralog protein complex BCDX2 which acts in the BRCA1-BRCA2-dependent HR pathway. Upon
	DNA damage, BCDX2 acts downstream of BRCA2 recruitment and upstream of RAD51
	recruitment. BCDX2 binds predominantly to the intersection of the four duplex arms of the
	Holliday junction and to junction of replication forks. The BCDX2 complex was originally
	reported to bind single-stranded DNA, single-stranded gaps in duplex DNA and specifically to
	nicks in duplex DNA. {ECO:0000269 PubMed:11751635, ECO:0000269 PubMed:11834724,
	ECO:0000269 PubMed:21276791, ECO:0000269 PubMed:23149936}.
lecular Weight:	32.9 kDa Including tag.

Molecular Weight:	32.9 kDa Including tag.
UniProt:	043543
Pathways:	DNA Damage Repair

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies	
	as well. As the protein has not been tested for functional studies yet we cannot offer a	
	guarantee though.	
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be	
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to	
	increase solubility. We will discuss all possible options with you in detail to assure that you	

Restrictions: For Research Use only

receive your protein of interest.

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

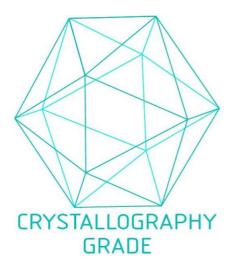


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process