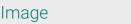
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RAD21 Protein (AA 1-631) (His tag)







Go to Product page

Overview

Quantity:	1 mg
Target:	RAD21
Protein Characteristics:	AA 1-631
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAD21 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MFYAHFVLSK RGPLAKIWLA AHWDKKLTKA HVFECNLESS VESIISPKVK MALRTSGHLL
LGVVRIYHRK AKYLLADCNE AFIKIKMAFR PGVVDLPEEN REAAYNAITL PEEFHDFDQP
LPDLDDIDVA QQFSLNQSRV EEITMREEVG NISILQENDF GDFGMDDREI MREGSAFEDD
DMLVSTTTSN LLLESEQSTS NLNEKINHLE YEDQYKDDNF GEGNDGGILD DKLISNNDGG
IFDDPPALSE AGVMLPEQPA HDDMDEDDNV SMGGPDSPDS VDPVEPMPTM TDQTTLVPNE
EEAFALEPID ITVKETKAKR KRKLIVDSVK ELDSKTIRAQ LSDYSDIVTT LDLAPPTKKL
MMWKETGGVE KLFSLPAQPL WNNRLLKLFT RCLTPLVPED LRKRRKGGEA DNLDEFLKEF
ENPEVPREDQ QQQHQQRDVI DEPIIEEPSR LQESVMEASR TNIDESAMPP PPPQGVKRKA
GQIDPEPVMP PQQVEQMEIP PVELPPEEPP NICQLIPELE LLPEKEKEKE KEKEDDEEEE
DEDASGGDQD QEERRWNKRT QQMLHGLQRA LAKTGAESIS LLELCRNTNR KQAAAKFYSF
LVLKKQQAIE LTQEEPYSDI IATPGPRFHI I

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

Product Details special request, please contact us. Characteristics: · Made in Germany - from design to production - by highly experienced protein experts. · Human RAD21 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. 2. 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.

0.22 µm filtered

Protein is endotoxin free.

Crystallography grade

Purity:

Sterility:

Grade:

Endotoxin Level:

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

Target Details

Target:	RAD21
Alternative Name:	RAD21 (RAD21 Products)
Background:	Cleavable component of the cohesin complex, involved in chromosome cohesion during cell
	cycle, in DNA repair, and in apoptosis. The cohesin complex is required for the cohesion of
	sister chromatids after DNA replication. The cohesin complex apparently forms a large
	proteinaceous ring within which sister chromatids can be trapped. At metaphase-anaphase
	transition, this protein is cleaved by separase/ESPL1 and dissociates from chromatin, allowing
	sister chromatids to segregate. The cohesin complex may also play a role in spindle pole
	assembly during mitosis. Also plays a role in apoptosis, via its cleavage by caspase-3/CASP3 o
	caspase-7/CASP7 during early steps of apoptosis: the C-terminal 64 kDa cleavage product may
	act as a nuclear signal to initiate cytoplasmic events involved in the apoptotic pathway.
	{ECO:0000269 PubMed:11875078, ECO:0000269 PubMed:12417729}.
Molecular Weight:	72.6 kDa Including tag.
UniProt:	060216
Pathways:	Positive Regulation of Endopeptidase Activity
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 gurantee 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
	receive your protein of interest.
Restrictions:	For Research Use only
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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

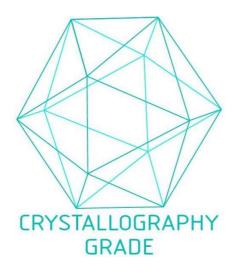


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process