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Datasheet for ABIN3131323 ERCC2 Protein (AA 1-760) (His tag)

Image



Overview

Quantity:	1 mg
Target:	ERCC2
Protein Characteristics:	AA 1-760
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERCC2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MKLNVDGLLV YFPYDYIYPE QFSYMLELKR TLDAKGHGVL EMPSGTGKTV SLLALIVAYQ
	RAYPLEVTKL IYCSRTVPEI EKVIEELRKL LSFYEQQEGE KLPFLGLALS SRKNLCIHPE
	VTPLRFGKDV DGKCHSLTAS YVRAQYQQDA SLPHCRFYEE FDIHGRQMPL PAGIYNLDDL
	KALGQRQGWC PYFLARYSIL HANVVVYSYH YLLDPKIADL VSKELARKAV VVFDEAHNID
	NVCIDSMSVN LTRRTLDRCQ SNLDTLQKTV LRIKETDEQR LRDEYRRLVE GLREASVARE
	TDAHLANPVL PDEVLQEAVP GSIRTAEHFL GFLRRLLEYV KWRLRVQHVV QESPPAFLSG
	LAQRVCIQRK PLRFCAERLR SLLHTLEIAD LADFSPLTLL ANFATLVSTY AKGFTIIIEP
	FDDRTPTIAN PVLHFSCMDA SLAIKPVFER FQSVIITSGT LSPLDIYPKI LDFHPVTMAT
	FTMTLARVCL CPMIIGRGND QVAISSKFET REDIAVIRNY GNLLLEMSAV VPDGIVAFFT
	SYQYMESTVA SWYEQGILEN IQRNKLLFIE TQDGAETSVA LEKYQEACEN GRGAILLSVA
	RGKVSEGIDF VHHYGRAVIM FGVPYVYTQS RILKARLEYL RDQFQIREND FLTFDAMRHA
	AQCVGRAIRG KTDYGLMVFA DKRFARADKR GKLPRWIQEH LTDSNLNLTV DEGVQVAKYF

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	LRQMAQPFHR EDQLGLSLLS LEQLQSEETL QRIEQIAQQL
	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. Mouse Ercc2 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.

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Product Details

Grade:

Crystallography grade

Target Details

Target:	ERCC2	
Alternative Name:	Ercc2 (ERCC2 Products)	
Background:	ATP-dependent 5'-3' DNA helicase, component of the core-TFIIH basal transcription factor. Involved in nucleotide excision repair (NER) of DNA by opening DNA around the damage, and in RNA transcription by RNA polymerase II by anchoring the CDK-activating kinase (CAK) complex, composed of CDK7, cyclin H and MAT1, to the core-TFIIH complex. Involved in the regulation of vitamin-D receptor activity. As part of the mitotic spindle-associated MMXD complex it plays a role in chromosome segregation. Might have a role in aging process and could play a causative role in the generation of skin cancers (By similarity). {ECO:000250}.	
Molecular Weight:	87.8 kDa Including tag.	
UniProt:	008811	
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 gurantee	
	though.	
Comment:	Protein has not been tested for activity yet. 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

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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

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