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RTEL1 Protein (AA 1-1203) (His tag)



Image



Go to Product page

Overview

Quantity:	1 mg
Target:	RTEL1
Protein Characteristics:	AA 1-1203
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RTEL1 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

MPRVVLNGVT VDFPFQPYPC QQEYMTKVLE CLQKKVNGIL ESPTGTGKTL CLLCSTLAWQ QHLRDAVSSL KIAERVQGEL FASRTLSSWG SAAAASGDSI ECYTDIPKII YASRTHSQLT QVIRELRNTA YRPKVCVLGS REQLCIHPEV KKQESNHMQI SLCRKKVASR SCHFYNNVEA KFLEQDLATP ILDIEDLVKN GSKQKMCPYY LSRNMKQQAD IIFMPYNYLL DAKSRKAHSI DLKGTVVIFD EAHNVEKICE ESASFDLTPR DVASGLEIIN QVLEEQARVT QQGELQQEFI VDTSSSGLNM ELEDIAKLKM ILLRLEEAID AVQLPGDDRG VTKPGSYIFE LFAEAQITFQ TKGCILESLD QIIQHLAGRT GVFTNTAGLQ KLMDIIQIVF SVDPPEGSPG SLVGLGISHS YKVHIHPETS HRRAAKRSDA WSTTASRKQG KVLSYWCFSP SQSMRELVCQ GVRTLILTSG TLAPLSSFAL EMQIPFPVCL ENPHIIDKNQ LWVGIVPRGP DGVQLSSAYD KRFSEECLSS LGKALSNIAR VVPHGLLVFF PSYPVMEKSL EFWQVQGLAR KVEALKPLFV EPRNKGSFSE VIDAYYQQVA SPASNGATFL AVCRGKASEG LDFSDMNGRG VIVTGLPYPP RMDPRVVLKM QFLDEMRGRS GVGGQCLSGQ EWYQQQASRA VNQAIGRVIR HRHDYGAIFL CDHRFAYADA

RAQLPSWVRP YLKVYDNFGH VIRDVAQFFR VAQKTMPLPV PQAVTSSVSE GEIALKDATL SSYSLSTRKA MSLDVHVPSL RQKPIGLPAA GDSESSLCGE YEQQTFSAQQ RPMGLLAALE YNEQKAGASE EQALGSSTPS LRCEKRLSTE QKGGRKKVRL VNHPEEPMAG TQAGRAKMFM VAVKQALSQA NFDTFTQALQ HYKSSDDFEA LVASLTCLFA EDPKKHTLLK GFYQFVRPHH KQQFEDICFQ LTGQRCGYQP GKRELESKLT LSEGVDRQLD PGQHLNQGQP HLSAHPTSKG HTSHCTKVGC AVEKPGQPAV SDYLSDVHKA LGSASCNQLT AALRAYKQDD DLDKVVAVVA ALTTAKPEHL PLLQRFGMFV RRHHKPQFLQ TCADLMGLPT TGKDLELEGP RDESPTVPPE LTHEDLKPGP SMSKKPEKTQ SKISSFFRQR PDESVRSDDT TPKPMQLPPR LPHELMKPHR SKQ

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 Rtel1 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.

Product Details

Froduct Details	
	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:	RTEL1
Alternative Name:	Rtel1 (RTEL1 Products)
Background: Molecular Weight: UniProt:	ATP-dependent DNA helicase implicated in telomere-length regulation, DNA repair and the maintenance of genomic stability. Acts as an anti-recombinase to counteract toxic recombination and limit crossover during meiosis. Regulates meiotic recombination and crossover homeostasis by physically dissociating strand invasion events and thereby promotes noncrossover repair by meiotic synthesis dependent strand annealing (SDSA) as well as disassembly of D loop recombination intermediates. Also disassembles T loops and prevents telomere fragility by counteracting telomeric G4-DNA structures, which together ensure the dynamics and stability of the telomere. {ECO:0000255 HAMAP-Rule:MF_03065, ECO:0000269 PubMed:15210109, ECO:0000269 PubMed:22579284, ECO:0000269 PubMed:22593209, ECO:0000269 PubMed:24115439}. 134.7 kDa Including tag.
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.

Application Details

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

Images

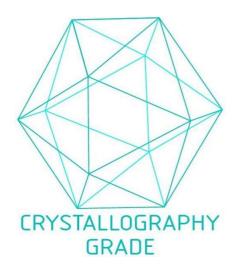


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process