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## FBX018 Protein (AA 1-1043) (His tag)



Go to Product page

#### Overview

Quantity:	1 mg
Target:	FBXO18
Protein Characteristics:	AA 1-1043
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBXO18 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### **Product Details**

Sequence:

MRRFKRKHLT AIDCQHLARS HLAVTQPFGQ RWTNRDPNHG LYPKPRTKRG SRGQGSQRCI PEFFLAGKQP CTNDMAKSNS VGQDSCQDSE GDMIFPAESS CALPQEGSAG PGSPGSAPPS RKRSWSSEEE SNQATGTSRW DGVSKKAPRH HLSVPCTRPR EARQEAEDST SRLSAESGET DQDAGDVGPD PIPDSYYGLL GTLPCQEALS HICSLPSEVL RHVFAFLPVE DLYWNLSLVC HLWREIISDP LFIPWKKLYH RYLMNEEQAV SKVDGILSNC GIEKESDLCV LNLIRYTATT KCSPSVDPER VLWSLRDHPL LPEAEACVRQ HLPDLYAAAG GVNIWALVAA VVLLSSSVND IQRLLFCLRR PSSTVTMPDV TETLYCIAVL LYAMREKGIN ISNRIHYNIF YCLYLQENSC TQATKVKEEP SVWPGKKTIQ LTHEQQLILN HKMEPLQVVK IMAFAGTGKT STLVKYAEKW SQSRFLYVTF NKSIAKQAER VFPSNVICKT FHSMAYGHIG RKYQSKKKLN LFKLTPFMVN SVLAEGKGGF IRAKLVCKTL ENFFASADEE LTIDHVPIWC KNSQGQRVMV EQSEKLNGVL EASRLWDNMR KLGECTEEAH QMTHDGYLKL WQLSKPSLAS FDAIFVDEAQ DCTPAIMNIV LSQPCGKIFV GDPHQQIYTF RGAVNALFTV PHTHVFYLTQ SFRFGVEIAY VGATILDVCK

RVRKKTLVGG NHQSGIRGDA KGQVALLSRT NANVFDEAVR VTEGEFPSRI HLIGGIKSFG LDRIIDIWIL LQPEEERRKQ NLVIKDKFIR RWVHKEGFSG FKRYVTAAED KELEAKIAVV EKYNIRIPEL VQRIEKCHIE DLDFAEYILG TVHKAKGLEF DTVHVLDDFV KVPCARHNLP QLPHFRVESF SEDEWNLLYV AVTRAKKRLI MTKSLENILT LAGEYFLQAE LTSNVLKTGV VRCCVGQCNN AIPVDTVLTM KKLPITYSNR KENKGGYLCH SCAEQRIGPL AFLTASPEQV RAMERTVENI VLPRHEALLF LVF

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 FBXO18 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.

# **Product Details** >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Sterility: 0.22 µm filtered Endotoxin Level: Protein is endotoxin free Grade: Crystallography grade **Target Details** Target: FBX018 FBX018 (FBX018 Products) Alternative Name: Background: 3'-5' DNA helicase and substrate-recognition component of the SCF(FBXO18) E3 ubiquitin ligase complex that plays a key role in response to stalled/damaged replication forks (PubMed:11956208, PubMed:23393192). Involved in genome maintenance by acting as an antirecombinogenic helicase and preventing extensive strand exchange during homologous recombination: promotes RAD51 filament dissolution from stalled forks, thereby inhibiting homologous recombination and preventing excessive recombination (PubMed:17724085, PubMed:19736316). Also promotes cell death and DNA double-strand breakage in response to replication stress: together with MUS81, promotes the endonucleolytic DNA cleavage following prolonged replication stress via its helicase activity, possibly to eliminate cells with excessive replication stress (PubMed:23319600, PubMed:23361013). Plays a major role in remodeling of stalled DNA forks by catalyzing fork regression, in which the fork reverses and the two nascent DNA strands anneal (PubMed:25772361). In addition to the helicase activity, also acts as the substrate-recognition component of the SCF(FBX018) E3 ubiquitin ligase complex, a complex that mediates ubiquitination of RAD51, leading to regulate RAD51 subcellular location (PubMed:25585578). {ECO:0000269|PubMed:11956208, ECO:0000269|PubMed:17724085, ECO:0000269|PubMed:19736316, ECO:0000269|PubMed:23319600, ECO:0000269|PubMed:23361013, ECO:0000269|PubMed:25585578, ECO:0000269|PubMed:25772361}. Molecular Weight: 118.6 kDa Including tag.

**Application Details** 

Q8NFZ0

Application Notes:

UniProt:

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

## **Application Details**

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