

Datasheet for ABIN3135734

BTBD12 Protein (AA 1-1565) (His tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	BTBD12
Protein Characteristics:	AA 1-1565
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BTBD12 protein is labelled with His tag.
Application:	ELISA, Crystallization (Crys), SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MVPESAPNGN SQPLPSCFTT TGVPSPSKPR VSELVLQRMK QFKRADPERL RHASEESPQK TALGDDVPRS PPEETVGENE YKLDATSDA AMALALQQEF RREEASSHHD SLEEKGLFFC QMCQKNLSAM NVTRREQHVN RCLDEAEKAQ RPASPRIPDC PICGKPFLLT KSRISHLKQC AVRMEVGPQL LLQAVRLQTA QPEVDGSPQV PSFSNNVGGL KRKGVTTKRE PRRRKVNKPE APSEDLLVAM ALSRSEVEHC PVVPPLRLN AFSEKIRLGA EKKSRRKRPP VCPPQLVTQD SETTGRQIED RVAQLLSEEA ELSCTPPLLA SKISKEEELP AGWRARLPEG KRNFLWELSA LTGAWAEESE YTVGLFPPIV SQCPSPKEQL PLELPKQGEP SPRRPPASQS SLPVSHSPKI RLSSSQRRER QALQDLVDLA VEGLS SSPQP GSRGVPTGLD LVPSSLPLTG FVLPCCKTLK KDDSASLSLG LLVTDFGAMV NNPHLSDVQF QLDSGEVLYA HKFVLYARCP LLIQYVSTES FSSEEDGDLT QRALLSDVSS EAAHAFLNYL YMADTDMPPS LVPDLRSLAL RFGVSDLVQL CEQVPAVVDL EGEQPEETSE DCEsRAETFL ELLRSVWVDN EEEVETLLKP ELCEEERERV NEAEMEEIYE FAATQRKLLQ WGRAADPDGS TNPHGEDGAV SEPSLAGVQS NRQLENTEHM
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ESSGLEKEEA LASWEQEGHS TPLQDQCPDW AGKAEAQDAL GEATDDPSFC SRHRRGKECL
PLHPNKAHGC KQPLPSNPRV SSELQITVD HEEQSDHVRE TQADMAQAPT PHSCSLVSQS
SVDGSPSQSW LHLYHTSHLS PSVSQSHSSI SRVASPRSL SPTPTKQRRG SNIVTLRKDA
GHHRGQQSSP IAGHRNRGIL ISPAKSPPID LTQSVPEPLS PRAQDPLHFV KKEDEVILL
DSDEELEHTK TESVSKDSPE GRKVPEFSR SSELFVIDV EEDHEHFQSP LKREAGLQHG
EEGQLGNQSA LGCRDIPWLL CSQKTSLEDED SATDTSWLVP ATPGVSRSD CSSQTQIKSL
KTRIPSDETA QQTPRPNLER RTMLETAQQF SVIMPHTQPI TLGAFDSGRQ AYRSPSHYP
RHHRLSSSQP SCPGPDFTRW SQKSSAPRPC LPNLPAADDV VEVGDSDEV ASHQGNSSPV
LDGDPPGPMG DYCWNEPLSP IPIDHLNLER TGPLTTSSPS SQVLEALHSD DCHSPGLGTT
PIRGSCGTLR ESQERSLAG SPEALWDDWN EEEQSPEAP PVAQMLSTRT RKPDRPETPK
GANQKKNLPP KVPITPMRY SIMETPVLKK ELDRFGVRAL PKRQMVLLK EIFQYTHQTL
ESDSEDEVQS PQIPALPCR QATTETCNP SRLPTGEP SH PDGDAQLPAS QESMATSVGD
SDNSFSSKSS SAEFGAAFEY SDEKDEEVG VTASQAAIQA ADTEEAVRRY IRKSPALHRQ
VLRYPVELA ELQAEKQNG IPVAMGKLS ILDAQCITFT TAAARKEKLK HKRRQPSGRK KKDQK

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 Slx4 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 receipt 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.

Product Details

	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:	<p>Two step purification of proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none">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.
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:	BTBD12
Alternative Name:	Slx4 (BTBD12 Products)
Background:	<p>Regulatory subunit that interacts with and increases the activity of different structure-specific endonucleases. Has several distinct roles in protecting genome stability by resolving diverse forms of deleterious DNA structures originating from replication and recombination intermediates and from DNA damage. Component of the SLX1-SLX4 structure-specific endonuclease that resolves DNA secondary structures generated during DNA repair and recombination. Has endonuclease activity towards branched DNA substrates, introducing single-strand cuts in duplex DNA close to junctions with ss-DNA. Has a preference for 5'-flap structures, and promotes symmetrical cleavage of static and migrating Holliday junctions (HJs). Resolves HJs by generating two pairs of ligatable, nicked duplex products. Interacts with the structure-specific ERCC4-ERCC1 endonuclease and promotes the cleavage of bubble structures. Interacts with the structure-specific MUS81-EME1 endonuclease and promotes the cleavage of 3'-flap and replication fork-like structures. SLX4 is required for recovery from alkylation-induced DNA damage and is involved in the resolution of DNA double-strand breaks (By similarity). {ECO:0000250}.</p>
Molecular Weight:	173.4 kDa Including tag.
UniProt:	Q6P1D7

Target Details

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:	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
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