

Datasheet for ABIN3136433
BTBD7 Protein (AA 2-1130) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	BTBD7
Protein Characteristics:	AA 2-1130
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BTBD7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys), ELISA

Product Details

Sequence:	GANASNYPHS CSPRVGGNSQ AQTFIGTSS YSQQGYGCES KLYSLDHGHE KPQDKKKRTS GLATLKKKFI KRRKSNRSAD HAKQMRELLS GWDVRDVNAL VEEYEGTSAL KELSLQASLA RPEARTLQKD MADLYEDKYC TDVDLIFQET CFPVHRAILA ARCPFFKTLL SSSPEYGAEI IMDISTAGID MPMFSALLHY LYTGEFGMED SRFQNV DILV QLSEEFGTPN PLDVDMRGLF DYMCCYYDVVL SFSSDSELVE AFGGNQNCLD EELKAHKAI SARSPFFRNL LQRRIRTGEE ITDRTLRTPT RIILDESIIP KKYAKVILHC MYTDVVDLSV LHCSPSVGSL SEVQALVAGK PNMTRAEEM ELYHIALFLE FNMLAQGCED IIAESISLDT LIAVLKWSSH PYGSKWVHRQ AVHFLCEELS QVMTSDVFYE LSKDHLLTAI QSDYLQASEQ DILKYLIKWG EHQLMKRIAD REPNLLSGTA HSNVNRGVKR RDL DIELRE ILSSLLPFVR IEHILPINSE VLS DAMKRGL ISTPPSDMLP TAEGGKSNAW LRQKNAGIYV RPRLFSPYVE EAKSVLDEMM VEQTDLVRLR MVRMSNVPDT LYMVSNAMPQ CCHMISHQQI SSNQSSPPSV VANEIPVRL LIMKDMVRRLL QELRHTEQVQ RAYALNCGEG ATVSYEIQIR VLREFGLADA AEELLQNPHK FFPDERFGDE
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SPLLTMRQPG RCRVNSTPTA ETMFTDLDSF VAFHPPLPPP PPPYHPPATP IHNQLKAGWK
QRPPSHHPSR SFSYPCNHSL FHCRTAPKPG PPPVYLPGVK VAPPDCTNTT GLGRQTVAAA
AAAAAASAAI IPEKQVCPQP VLNDLMPDIA MGVESTLSLKD RRLPELAADT ELCQTVSEAG
TGPPQHLSCI PQRHTNTSRK KPTLEQKADG RENQQEYPDL YDFSNAACRP STPAPGRHSP
SPAHGRYFGP DLYSHNKASP NGLKSVYLPQ QTSPKKQEDP RREYPPSPDG HPHRQKREPI
RLDVVEQPPQ RPDFPSAASE NASHGPAHVR ARTAVETDLT FGLTSNRPPS HSACSSEVLE
ERSSRRLTDS EPLGHGAHQ R NADLERGDSI SRGRRSPSKP DFLYKKSAL

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 Btbd7 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.

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

Product Details

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:	BTBD7
Alternative Name:	Btbd7 (BTBD7 Products)
Background:	Acts as a mediator of epithelial dynamics and organ branching by promoting cleft progression. Induced following accumulation of fibronectin in forming clefts, leading to local expression of the cell-scattering SNAIL2 and suppression of E-cadherin levels, thereby altering cell morphology and reducing cell-cell adhesion. This stimulates cell separation at the base of forming clefts by local, dynamic intercellular gap formation and promotes cleft progression. {ECO:0000269 PubMed:20671187}.
Molecular Weight:	127.1 kDa Including tag.
UniProt:	Q8CFE5

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
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Handling

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