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Datasheet for ABIN3136384

C6orf150 Protein (AA 1-507) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	C6orf150
Protein Characteristics:	AA 1-507
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This C6orf150 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: MEDPRRRRTTA PRAKKPSAKR APTQPSRTRA HAESCGPQRG ARSRAERDGD DTTEKPRAPG
PRVHPARATE LTKDAQPSAM DAAGATARPA VRVPQQQAIL DPELPAVREP QPPADPEARK
VVRGPSHRRG ARSTGQPRAP RGSRKEPDKL KKVLDKLRK RKDISEAAET VNKVVERLLR
RMQKRESEFK GVEQLNTGSY YEHVKISAPN EFDVMFKLEV PRIELQEYEE TGAFYLVKFK
RIPRGNPLSH FLEGEVLSAT KMLSKFRKII KEEVKEIKDI DVSVEKEKPG SPAVTLIRN PEEISVDIIL
ALESKGSWPI STKEGLPIQG WLGTKVRTNL RREPFLVPK NAKDGNFSFQ ETWRLSFSHT
EKYILNNHGI EKTCCSSGA KCCRKECLKL MKYLLEQLKK EFQELDAFCS YHVKTAIFHM
WTQDPQDSQW DPRNLSSCFD KLLAFFLECL RTEKLDHYFI PKFNLFSQL IDRKSKEFLS
KKIEYERNNG FPIFDKL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Product Details

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Mouse Mb21d1 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.

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- 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 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:	C6orf150
Alternative Name:	Mb21d1 (C6orf150 Products)
Background:	<p>Nucleotidyltransferase that catalyzes the formation of cyclic GMP-AMP (cGAMP) from ATP and GTP. Catalysis involves both the formation of a 2',5' phosphodiester linkage at the GpA step and the formation of a 3',5' phosphodiester linkage at the ApG step, producing c[G(2',5')pA(3',5')p] (PubMed:23258413, PubMed:23647843, PubMed:23722158, PubMed:26829768). Has antiviral activity by acting as a key cytosolic DNA sensor, the presence of double-stranded DNA (dsDNA) in the cytoplasm being a danger signal that triggers the immune responses (PubMed:23258413, PubMed:23647843, PubMed:23722158). Binds cytosolic DNA directly, leading to activation and synthesis of cGAMP, a second messenger that binds to and activates TMEM173/STING, thereby triggering type-I interferon production (PubMed:23722158). cGAMP can be transferred between cells by virtue of packaging within viral particles contributing to IFN-α induction in newly infected cells in a cGAS-independent but TMEM173/STING-dependent manner (PubMed:26229117). {ECO:0000269 PubMed:23258413, ECO:0000269 PubMed:23647843, ECO:0000269 PubMed:23722158, ECO:0000269 PubMed:26229117, ECO:0000269 PubMed:26829768}.</p>
Molecular Weight:	59.1 kDa Including tag.
UniProt:	Q8C6L5
Pathways:	Activation of Innate immune Response

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