Datasheet for ABIN3133591

Murinoglobulin 1 Protein (Mug1) (AA 28-1476) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	Murinoglobulin 1 (Mug1)
Protein Characteristics:	AA 28-1476
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Murinoglobulin 1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Crystallization (Crys), ELISA, Western Blotting (WB)

Product Details

Sequence:	DSKYMVLVPS QLYTETPEKI CLHLYQLNET VTVTASLVSQ SGRKNLFDEL VLDKDLFQCV SFIIPRLSSS DEEDFLYVDI KGPTHEFSKR KAVLVKNKES VVFVQTDKPV YKPGQSVKFR VVSMDKMLRP LNELLPLAYI EDPKKNRIMQ WRDIKTENGL KQMSFSLAAE PIQGPYKIVV HKESGEKEEH SFTVMEFVLP RFNVDLKVPN AMSVNDEVLS VTACGKYTYG KPVPGHVKIN VCRETETGCR EVNSQLDNNG CSTQEVNITE LQSKKRNYEV QLFHVNATVT EEGTGLEFSR SGTTKIERIT NKLIFLKADS HFRHGIPFFV KVRLVDIKGD PIPNEKVFIK AQELSYTSAT TTDQHGLAEF SIDTTCISGS SLHIKVNHKE EDSCSYFYCM EERHASAKHV AYAVYSLSKS YIYLDTETSS ILPCNQIHTV QAHFILKGDL GVLKELIFYY LVMAQGSIIQ TGNHTHQVEP GEAPVKGKFA LEIPVEFSMV PMAKMLIYTI LPDGEVIADS VNFEIEKCLR NKVDLRFSTS QSLPASQTRL QVTASPQSLC GLRAVDQSVL LLKPESELSP SWIYNLPGMQ QNKFVPSSRL SEDQEDCILY SSWLAEKHTN LVPHGTEKDV YRYVEDMGLT AFTNLMIKLP IICFDYGMVP ISAPRVEFDL AFTPEISWSL RTTLSKRPEE PPRKDPSSND PLTETIRKYF PETWVWDIVT

VNSTGLAEVE MTVPDTITEW KAGALCLSND TGLGLSSVVP LQAFKPFFVE VSLPYSVVRG EAFMLKATVM NYLPTSMQMS VQLEASPDFT AVPVGDDQDS YCLSANGRHT SSWLVTPKSL GNVNFSVSAE AQQSSEPCGS EVATVPETGR KDTVVKVLIV EPEGIKQEHT FSSLFCASDA EISEKMSLVL PPTVVKDSAR AHFSVMGDIL SSAIRNTQNL LHMPYGCGEQ NMVLFAPNIY VLKYLNETQQ LTQKIKTKAL GFLRAGYQRE LNYKHKDGSY SAFGDQNGER EGNTWLTAFV LKSFAQARAF IFIDESHITH AFTWLSQKQK DNGCFRSSGS LFNNAMKGGV DDEMTLSAYI TMALLESSLP ATHPVVSKAL SCLESSWKTI EQERNASFVY TKALMAYAFA LAGNQNKRDE ILKSLDEEAI KENNSIHWKR PQKSRKSEHH LYKPQASSAE VEMNAYVVLA RLTAQPAPSP EDLTLSMSTI MWLTKQQNSN GGFSSTQDTV VALDALSKYG AVTFSRSQKT TLVTIQSTGS FSQKFQVENS NRLLLQQVAL PDIPGDYTIS VSGEGCVYAQ TMLRYNMHLE KQLSAFAIWV QTVPLTCNNP KGHNSFQISL EISYTGSRPA SNMVIADVKM LSGFIPLKPT VKKLERLEHV SRTEVSNNNV LIYLDQVTNQ TLAFSFIIQQ DIPVRNLQPA IVKVYDYYET DEMAFAEYSS PCSTDKQNV

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 Mug1 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

Product Details

	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 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:	Murinoglobulin 1 (Mug1)
Alternative Name:	Mug1 (Mug1 Products)
Background:	A proteinase activates the inhibitor by specific proteolysis in the bait region, which, by an unknown mechanism leads to reaction at the cysteinyl-glutamyl internal thiol ester site and to a conformational change, whereby the proteinase is trapped and/or covalently bound to the inhibitor. While in the tetrameric proteinase inhibitors steric inhibition is sufficiently strong, monomeric forms need a covalent linkage between the activated glutamyl residue of the original thiol ester and a terminal amino group of a lysine or another nucleophilic group on the proteinase, for inhibition to be effective.
Molecular Weight:	163.2 kDa Including tag.
UniProt:	P28665

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

Application Details

	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

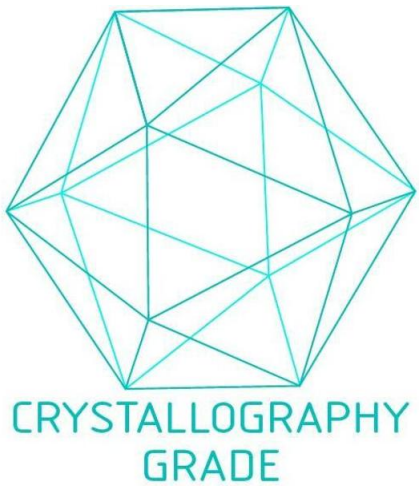

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process