

Datasheet for ABIN3096211
ube3a Protein (AA 1-875) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	ube3a
Protein Characteristics:	AA 1-875
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ube3a protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MEKLHQCYWK SGEPQSDDIE ASRMKRAAAK HLIERYHQL TEGCGNEACT NEFCASCPTF LRMDNNAAAI KALELYKINA KLCDPHPSKK GASSAYLENS KGAPNNSCSE IKMNKKGARI DFKDVTYLTE EKVEILELC REREDYSPLI RVIGRVFSSA EALVQSFRKV KQHTKEELKS LQAKDEDEKDE DEKEKAACSA AAMEEDSEAS SSRIGDSSQG DNNLQKLGPD DVSVDIDAIR RVYTRLLSNE KIETAFLNAL VYLSPNVECD LTYHNVYSRD PNYLNLFIIV MENRNLHSPE YLEMALPLFC KAMSKLPLAA QGKLIRLWSK YNADQIRMM ETFQQLITYK VISNEFN SRN LVNDDDAIVA ASKCLKMVYY ANVVGGEVDT NHNEEDDEEP IPESSELTQ ELLGEERRNK KGPRVDPLET ELGVKTLDCR KPLIPFEEFI NEPLNEVLEM DKDYTFKKVE TENKFSFMT C PFILNAVTKN LGLYYDNRI R MYSERRITVL YSLVQGQQLN PYLRLKVRRD HIIDALVRL EMIAMENPAD LKKQLYVEFE GEQGVDEGGV SKEFFQLVVE EIFNPDIGMF TYDESTKLFW FNPSSFETEG QFTLIGIVLG LAIYNNCILD VHFPMMVYRK LMGKKGTFRD LGD SHPVLYQ SLKDLLEYEG NVEDDMMITF QISQTDLFGN PMMYDLKENG DKIPITNENR KEFVNLYSDY
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ILNKSVEKQF KAFRRGFHVMV TNESPLKYL F RPEEIELLIC GSRNLDFQAL EETTEYDGGY
TRDSVLIREF WEIVHSFTDE QKRLFLQFTT GTDRAPVGGL GKLKMIIAKN GPDTERLPTS
HTCFNVLLLP EYSSKEKLKE RLLKAITYAK GFGML

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 UBE3A 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 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

Product Details

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: ube3a

Alternative Name: UBE3A ([ube3a Products](#))

Background: E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and transfers it to its substrates. Several substrates have been identified including the RAD23A and RAD23B, MCM7 (which is involved in DNA replication), annexin A1, the PML tumor suppressor, and the cell cycle regulator CDKN1B. Catalyzes the high-risk human papilloma virus E6-mediated ubiquitination of p53/TP53, contributing to the neoplastic progression of cells infected by these viruses. Additionally, may function as a cellular quality control ubiquitin ligase by helping the degradation of the cytoplasmic misfolded proteins. Finally, UBE3A also promotes its own degradation in vivo. Plays an important role in the regulation of the circadian clock: involved in the ubiquitination of the core clock component ARNTL/BMAL1, leading to its proteasomal degradation (PubMed:24728990). {ECO:0000269|PubMed:10373495, ECO:0000269|PubMed:19204938, ECO:0000269|PubMed:19233847, ECO:0000269|PubMed:19325566, ECO:0000269|PubMed:19591933, ECO:0000269|PubMed:22645313, ECO:0000269|PubMed:24728990}.

Molecular Weight: 101.6 kDa Including tag.

UniProt: [Q05086](#)

Pathways: [Intracellular Steroid Hormone Receptor Signaling Pathway](#)

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: 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.

Application Details

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