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ube3a Protein (AA 1-875) (Strep Tag)





Go to Product page

Overview

Quantity:	1 mg
Target:	ube3a
Protein Characteristics:	AA 1-875
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ube3a protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:

MEKLHQCYWK SGEPQSDDIE ASRMKRAAAK HLIERYYHQL TEGCGNEACT NEFCASCPTF LRMDNNAAAI KALELYKINA KLCDPHPSKK GASSAYLENS KGAPNNSCSE IKMNKKGARI DFKDVTYLTE EKVYEILELC REREDYSPLI RVIGRVFSSA EALVQSFRKV KQHTKEELKS LQAKDEDKDE DEKEKAACSA AAMEEDSEAS SSRIGDSSQG DNNLQKLGPD DVSVDIDAIR RVYTRLLSNE KIETAFLNAL VYLSPNVECD LTYHNVYSRD PNYLNLFIIV MENRNLHSPE YLEMALPLFC KAMSKLPLAA QGKLIRLWSK YNADQIRRMM ETFQQLITYK VISNEFNSRN LVNDDDAIVA ASKCLKMVYY ANVVGGEVDT NHNEEDDEEP IPESSELTLQ ELLGEERRNK KGPRVDPLET ELGVKTLDCR KPLIPFEEFI NEPLNEVLEM DKDYTFFKVE TENKFSFMTC PFILNAVTKN LGLYYDNRIR MYSERRITVL YSLVQGQQLN PYLRLKVRRD HIIDDALVRL EMIAMENPAD LKKQLYVEFE GEQGVDEGGV SKEFFQLVVE EIFNPDIGMF TYDESTKLFW FNPSSFETEG QFTLIGIVLG LAIYNNCILD VHFPMVVYRK LMGKKGTFRD LGDSHPVLYQ SLKDLLEYEG NVEDDMMITF QISQTDLFGN PMMYDLKENG DKIPITNENR KEFVNLYSDY

ILNKSVEKQF KAFRRGFHMV TNESPLKYLF RPEEIELLIC GSRNLDFQAL EETTEYDGGY
TRDSVLIREF WEIVHSFTDE QKRLFLQFTT GTDRAPVGGL GKLKMIIAKN GPDTERLPTS
HTCFNVLLLP EYSSKEKLKE RLLKAITYAK GFGML

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- · 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- 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:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade:

Crystallography grade

Target Details

Target:

ube3a

Alternative Name:

UBE3A (ube3a Products)

Background:

Ubiquitin-protein ligase E3A (EC 2.3.2.26) (E6AP ubiquitin-protein ligase) (HECT-type ubiquitin transferase E3A) (Human papillomavirus E6-associated protein) (Oncogenic protein-associated protein E6-AP) (Renal carcinoma antigen NY-REN-54), FUNCTION: 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 (PubMed:10373495, PubMed:16772533, PubMed:19204938, PubMed:19233847, PubMed:19325566, PubMed:19591933, PubMed:22645313, PubMed:24273172, PubMed:24728990, PubMed:30020076). Several substrates have been identified including the BMAL1, ARC, LAMTOR1, RAD23A and RAD23B, MCM7 (which is involved in DNA replication), annexin A1, the PML tumor suppressor, and the cell cycle regulator CDKN1B (PubMed:10373495, PubMed:19204938, PubMed:19325566, PubMed:19591933, PubMed:22645313, PubMed:24728990, PubMed:30020076). Additionally, may function as a cellular quality control ubiquitin ligase by helping the degradation of the cytoplasmic misfolded proteins (PubMed:19233847). 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 BMAL1, leading to its proteasomal degradation (PubMed:24728990). Acts as transcriptional coactivator of progesterone receptor PGR upon progesterone hormone activation (PubMed:16772533). Acts as a regulator of synaptic development by mediating ubiquitination and degradation of ARC (By similarity). Required for synaptic remodeling in neurons by mediating ubiquitination and degradation of LAMTOR1, thereby limiting mTORC1 signaling and activity-dependent synaptic remodeling (By similarity). Synergizes with WBP2 in

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	enhancing PGR activity (PubMed:16772533). {ECO:0000250 UniProtKB:008759,
	ECO:0000269 PubMed:10373495, ECO:0000269 PubMed:16772533,
	ECO:0000269 PubMed:19204938, ECO:0000269 PubMed:19233847,
	ECO:0000269 PubMed:19325566, ECO:0000269 PubMed:19591933,
	ECO:0000269 PubMed:22645313, ECO:0000269 PubMed:24273172,
	ECO:0000269 PubMed:24728990, ECO:0000269 PubMed:30020076}., FUNCTION: (Microbial
	infection) Catalyzes the high-risk human papilloma virus E6-mediated ubiquitination of
	p53/TP53, contributing to the neoplastic progression of cells infected by these viruses.
	{ECO:0000269 PubMed:8380895}.
Molecular Weight:	100.7 kDa
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:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
	please contact us.

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

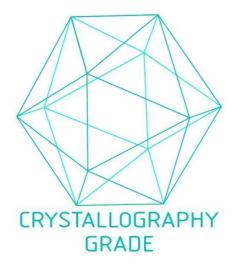


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process