

Datasheet for ABIN3137610 BAT3 Protein (AA 1-1154) (Strep Tag)



Overview

Quantity:	250 µg
Target:	BAT3
Protein Characteristics:	AA 1-1154
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BAT3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MEPSDSASTA MEEPDSLEVL VKTLDSQTRT FIVGAQMNVK EFKEHIAASV SIPSEKQRLI
	YQGRVLQDDK KLQEYNVGGK VIHLVERAPP QTQLPSGASS GTGSASATHG GAPLPGTRGP
	GASVHDRNAN SYVMVGTFNL PSDGSAVDVH INMEQAPIQS EPRVRLVMAQ HMIRDIQTLL
	SRMECRGGTQ AQASQPPPQT PQTVASETVA LNSQTSEPVE SEAPPREPME SEEMEERPPT
	QTPELAPSGP APAGPAPAGP APAPETNAPN HPSPAEHVEV LQELQRLQRR LQPFLQRYCE
	VLGAAATTDY NNNHEGREED QRLINLVGES LRLLGNTFVA LSDLRCNLAC APPRHLHVVR
	PMSHYTTPMV LQQAAIPIQI NVGTTVTMTG NGARPPPAPG AEAATPGSAQ ATSLPPSSTT
	VDSSTEGAPP PGPAPPPASS HPRVIRISHQ SVEPVVMMHM NIQDSGAQPG GVPSAPTGPL
	GPPGHGQTLG QQVPGFPTAP TRVVIARPTP PQARPSHPGG PPVSGALQGA GLGTNTSLAQ
	MVSGLVGQLL MQPVLVAQGT PGMAQAQAQA QAQAQAQAQA PAPAPAPAPA PATASASAGT
	TNTATTAGPA PGGPAQPPPP QPSAADLQFS QLLGNLLGPA GPGAGGPGMA SPTITVAMPG

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	VPAFLQGMTD FLQASQTAPP PPPPPPPPP APEQQSTPPP GSPSGGTASP GGLGPESLPP
	EFFTSVVQGV LSSLLGSLGA RAGSSESIAA FIQRLSGSSN IFEPGADGAL GFFGALLSLL
	CQNFSMVDVV MLLHGHFQPL QRLQPQLRSF FHQHYLGGQE PTPSNIRMAT HTLITGLEEY
	VRESFSLVQV QPGVDIIRTN LEFLQEQFNS IAAHVLHCTD SGFGARLLEL CNQGLFECLA
	LNLHCLGGQQ MELAAVINGR IRRMSRGVNP SLVSWLTTMM GLRLQVVLEH MPVGPDAILR
	YVRRVGDPPQ TLPEEPMEVQ GAERTSPEPQ RENASPAPGT TAEEAMSRGP PPAPEGGSRD
	EQDGASADAE PWAAAVPPEW VPIIQQDIQS QRKVKPQPPL SDAYLSGMPA KRRKTMQGEG
	PQLLLSEAVS RAAKAAGARP LTSPESLSRD LEAPEVQESY RQQLRSDIQK RLQEDPNYSP
	QRFPNAHRAF ADDP
	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 in one-step affinity chromatography 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 try to ensure that you receive soluble 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 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 -

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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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	BAT3
Alternative Name:	Bag6 (BAT3 Products)
Background:	Large proline-rich protein BAG6 (BAG family molecular chaperone regulator 6) (BCL2-
	associated athanogene 6) (BAG-6) (HLA-B-associated transcript 3) (Protein Scythe),FUNCTION:
	ATP-independent molecular chaperone preventing the aggregation of misfolded and
	hydrophobic patches-containing proteins (PubMed:18056262, PubMed:18678708,
	PubMed:20713601). Functions as part of a cytosolic protein quality control complex, the
	BAG6/BAT3 complex, which maintains these client proteins in a soluble state and participates
	in their proper delivery to the endoplasmic reticulum or alternatively can promote their sorting
	to the proteasome where they undergo degradation (PubMed:20713601). The BAG6/BAT3
	complex is involved in the post-translational delivery of tail-anchored/type II transmembrane
	proteins to the endoplasmic reticulum membrane. Recruited to ribosomes, it interacts with the
	transmembrane region of newly synthesized tail-anchored proteins and together with SGTA
	and ASNA1 mediates their delivery to the endoplasmic reticulum. Client proteins that cannot be
	properly delivered to the endoplasmic reticulum are ubiquitinated by RNF126, an E3 ubiquitin-
	protein ligase associated with BAG6 and are sorted to the proteasome. SGTA which prevents
	the recruitment of RNF126 to BAG6 may negatively regulate the ubiquitination and the
	proteasomal degradation of client proteins. Similarly, the BAG6/BAT3 complex also functions
	as a sorting platform for proteins of the secretory pathway that are mislocalized to the cytosol
	either delivering them to the proteasome for degradation or to the endoplasmic reticulum. The
	BAG6/BAT3 complex also plays a role in the endoplasmic reticulum-associated degradation
	(ERAD), a quality control mechanism that eliminates unwanted proteins of the endoplasmic
	reticulum through their retrotranslocation to the cytosol and their targeting to the proteasome.

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It maintains these retrotranslocated proteins in an unfolded yet soluble state condition in the
cytosol to ensure their proper delivery to the proteasome (By similarity). BAG6 is also required
for selective ubiquitin-mediated degradation of defective nascent chain polypeptides by the
proteasome. In this context, it may participate in the production of antigenic peptides and play a
role in antigen presentation in immune response (PubMed:20713601). BAG6 is also involved in
endoplasmic reticulum stress-induced pre-emptive quality control, a mechanism that
selectively attenuates the translocation of newly synthesized proteins into the endoplasmic
reticulum and reroutes them to the cytosol for proteasomal degradation. BAG6 may ensure the
proper degradation of these proteins and thereby protects the endoplasmic reticulum from
protein overload upon stress (By similarity). By inhibiting the polyubiquitination and subsequent
proteasomal degradation of HSPA2 it may also play a role in the assembly of the synaptonemal
complex during spermatogenesis (PubMed:18678708). Also positively regulates apoptosis by
interacting with and stabilizing the proapoptotic factor AIFM1 (PubMed:18056262). By
controlling the steady-state expression of the IGF1R receptor, indirectly regulates the insulin-like
growth factor receptor signaling pathway (By similarity). {ECO:0000250 UniProtKB:P46379,
ECO:0000269 PubMed:18056262, ECO:0000269 PubMed:18678708,
ECO:0000269 PubMed:20713601}., FUNCTION: Involved in DNA damage-induced apoptosis:
following DNA damage, accumulates in the nucleus and forms a complex with p300/EP300,
enhancing p300/EP300-mediated p53/TP53 acetylation leading to increase p53/TP53
transcriptional activity. When nuclear, may also act as a component of some chromatin
regulator complex that regulates histone 3 'Lys-4' dimethylation (H3K4me2).
{ECO:0000250 UniProtKB:P46379}., FUNCTION: Released extracellularly via exosomes, it is a
ligand of the natural killer/NK cells receptor NCR3 and stimulates NK cells cytotoxicity. It may
thereby trigger NK cells cytotoxicity against neighboring tumor cells and immature myeloid
dendritic cells (DC). {ECO:0000250 UniProtKB:P46379}., FUNCTION: May mediate ricin-induced
apoptosis. {ECO:0000250 UniProtKB:P46379}.

Molecular Weight: 121.0 kDa

UniProt:

Q9Z1R2

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

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	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.
	Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months