

Datasheet for ABIN3089780

BAIAP3 Protein (AA 1-1187) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	BAIAP3
Protein Characteristics:	AA 1-1187
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BAIAP3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MRPRGAAFAA GPPGDLHLGT AIGFAGAIWR SRSPAMSTLL DIKSSVLRQV QVCPSFRRRT</p> <p>EQDPGSASAD PQEPATGAWK PGDGVEFFAH MRLMLKKGEG RQGLPCLEVP LRSGSPAPPE</p> <p>PVDPSLGLRA LAPEEVEMLY EEALYTVLYR AGTMGPDQVD DEEALLSYLQ QVFGTSLEEH</p> <p>TEAIERVRKA KAPTIALKVS VMRAKNLLAK DPNGFSDPYC MLGILPASDA TREPRAQKEQ</p> <p>RFGFRKGSKR GGPLPAKCIQ VTEVKSSTLN PWWKEHFLFE IEDVSTDQLH LDIWDHDDDV</p> <p>SLVEACRKLN EVIGLKGMR YFKQIVKSAR ANGTAQPTD HTDDFLGCLN IPVREVPVAG</p> <p>VDRWFKLEPR SSASRVQGHG HVLVKLITTQ RDTAMSQRGR SGFLSHLLLL SHLLRLEHSA</p> <p>EEPNSSSWRG ELSTPAATIL CLHGAQSNLS PLQLAVLHWQ VSSRHHQTCT LDYSYLLGLL</p> <p>EDMQAHWEEA PSLPQEQEES LADSLSAFSE FGLQLLRQLR DYFPATNSTA VHRLELLKLC</p> <p>LGKLQLFQPS FEICPFESEL NMDIAAALKR GNREWDYDRIL NDKSPREQPG PQRLPGLVVL</p> <p>ADAVYDDLQF CYSVYASLFH SILNVDVFTL TFRQLERLVA EEAWVLTEEL SPKMTLEVAS</p>

GLFELYTLA DLQRFWDSIP GRDSRSLALA GIHAPFLPAV KLWFQVLRDQ AKWRLQGAVD
MDTLEPVDAS SRHSSSAATA GLCLSHIQEL WVRLAWPDPA QAQGLGTQLG QDVCEATLFY
TELLRKKVDT QPGAAGEAVS EALCVVLNNV ELVRKAAGQA LKGLAWPEGA TGPEGVLPRP
LLSCTQALDD DLQREAHTVT AHLTSKMVG D IRKYVQHISL SPDSIQNDEA VAPLMKYLDE
KLALLNASLV KGNLSRVLEA LWELLQAIL QALGANRDVS ADFYSRFHFT LEALVSFFHA
EGQGLPLESL RDGSYKRLKE ELRLHKCSTR ECIEQFYLDK LKQRTLEQNR FGRLSVRCHY
EAAEQRLAVE VLHAADLLPL DANGLSDPFV IVELGPPHLF PLVRSQRTQV KTRTLHPVYD
ELFYFSVPAE ACRRRAACVL FTVMDHDWLS TNDFAGEAAL GLGGVTGVAR PQVGGGARAG
QPVTLHLCRP RAQVRSALRR LEGRTSKEAQ EFVKKLKELE KCMEADP

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 - all that's needed is the DNA that codes for the desired protein!

Product Details

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: BAIAP3

Alternative Name: BAIAP3 ([BAIAP3 Products](#))

Background: BAI1-associated protein 3 (BAP3) (Brain-specific angiogenesis inhibitor I-associated protein 3),FUNCTION: Functions in endosome to Golgi retrograde transport. In response to calcium influx, may interact with SNARE fusion receptors and membrane phospholipids to mediate endosome fusion with the trans-Golgi network. By promoting the recycling of secretory vesicle transmembrane proteins, it indirectly controls dense-core secretory vesicle biogenesis, maturation and their ability to mediate the constitutive and regulated secretion of neurotransmitters and hormones. May regulate behavior and food intake by controlling calcium-stimulated exocytosis of neurotransmitters including NPY and serotonin and hormones like insulin (PubMed:28626000). Proposed to play a role in hypothalamic neuronal firing by modulating gamma-aminobutyric acid (GABA)ergic inhibitory neurotransmission (By similarity). {ECO:0000250|UniProtKB:Q80TT2, ECO:0000269|PubMed:28626000}.

Molecular Weight: 131.9 kDa

UniProt: [O94812](#)

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

Application Details

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