Datasheet for ABIN3109525

BAI1 Protein (AA 31-1584) (rho-1D4 tag)

1 Image

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Overview

Quantity:	1 mg
Target:	BAI1
Protein Characteristics:	AA 31-1584
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BAI1 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	AAGADAGPGP EPCATLVQGK FFGYFSAAAV FPANASRCSW TLRNPDPRRY TLYMKVAKAP VPCSGPGRVR TYQFDSFLES TRTYLGVESF DEVLRLCDPS APLAFLQASK QFLQMRRQQP PQHDGLRPRA GPPGPTDDFS VEYLVVGNRN PSRAACQMLC RWLDACLAGS RSSHPCGIMQ TPCACLGGEA GGPAAGPLAP RGDVCLRDAV AGGPENCLTS LTQDRGGHGA TGGWKLWSLW GECTRDCGGG LQTRTRTCLP APGVEGGGCE GVLEEGRQCN REACGPAGRT SSRSQSLRST DARRREELGD ELQQFGFPAP QTGDPAAEEW SPWSVCSSTC GEGWQTRTRF CVSSSYSTQC SGPLREQRLC NNSAVCPVHG AWDEWSPWSL CSSTCGRGFR DRTRTCRPPQ FGGNPCEGPE KQTKFCNIAL CPGRAVDGNW NEWSSWSACS ASCSQGRQQR TRECNGPSYG GAECQGHWVE TRDCFLQQCP VDGKWQAWAS WGSCSVTCGA GSQRRERVCS GPFFGGAACQ GPQDEYRQCG TQRCPEPHEI CDEDNFGAVI WKETPAGEVA AVRCPRNATG LILRRCELDE EGIAYWEPPT YIRCVSIDYR NIQMMTREHL AKAQRGLPGE GVSEVIQTLV EISQDGTSYS GDLLSTIDVL RNMTEIFRRA YYSPTPGDVQ NFVQILSNLL AEENRDKWEE AQLAGPNAKE LFRLVEDFVD

VIGFRMKDLR DAYQVTDNLV LSIHKLPASG ATDISFPMKG WRATGDWAKV PEDRVTVSKS VFSTGLTEAD EASVFVVGTV LYRNLGSFLA LQRNTTVLNS KVISVTVKPP PRSLRTPLEI EFAHMYNGTT NQTCILWDET DVPSSSAPPQ LGPWSWRGCR TVPLDALRTR CLCDRLSTFA ILAQLSADAN MEKATLPSVT LIVGCGVSSL TLLMLVIIYV SVWRYIRSER SVILINFCLS IISSNALILI GQTQTRNKVV CTLVAAFLHF FFLSSFCWVL TEAWQSYMAV TGHLRNRLIR KRFLCLGWGL PALVVAISVG FTKAKGYSTM NYCWLSLEGG LLYAFVGPAA AVVLVNMVIG ILVFNKLVSK DGITDKKLKE RAGASLWSSC VVLPLLALTW MSAVLAVTDR RSALFQILFA VFDSLEGFVI VMVHCILRRE VQDAVKCRVV DRQEEGNGDS GGSFQNGHAQ LMTDFEKDVD LACRSVLNKD IAACRTATIT GTLKRPSLPE EEKLKLAHAK GPPTNFNSLP ANVSKLHLHG SPRYPGGPLP DFPNHSLTLK RDKAPKSSFV GDGDIFKKLD SELSRAQEKA LDTSYVILPT ATATLRPKPK EEPKYSIHID QMPQTRLIHL STAPEASLPA RSPPSRQPPS GGPPEAPPAQ PPPPPPPPPP PPQQPLPPPP NLEPAPPSLG DPGEPAAHPG PSTGPSTKNE NVATLSVSSL ERRKSRYAEL DFEKIMHTRK RHQDMFQDLN RKLQHAAEKD KEVLGPDSKP EKQQTPNKRP WESLRKAHGT PTWVKKELEP LQPSPLELRS VEWERSGATI PLVGQDIIDL QTEV

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 BAI1 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.

Product Details

	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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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:	BAI1
Alternative Name:	BAI1 (BAI1 Products)
Background:	Phosphatidylserine receptor that enhances the engulfment of apoptotic cells. Likely to be a potent inhibitor of angiogenesis in brain and may play a significant role as a mediator of the p53 signal in suppression of glioblastoma. May function in cell adhesion and signal transduction in the brain. {ECO:0000269|PubMed:11875720}.
Molecular Weight:	171.5 kDa Including tag.
UniProt:	O14514
Pathways:	p53 Signaling

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.

Application Details

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.
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