antibodies .- online.com





BVES Protein (AA 1-358) (rho-1D4 tag)



Image



Overview

Quantity:	1 mg
Target:	BVES
Protein Characteristics:	AA 1-358
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BVES protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MNSTESIPLA QSTVAGFTSE LESLTPVPSN ETTCENWREI HHLVFHVANV CFAVGLLIPT
TLHLHMILLR VMLSLGCTLY VVWATLYRCA LDVMIWNSVF LGINILHLSY LLYKKRPVKI
EKELGGVYHR LFEPLRVPPD LFRRLTGQFC MIQTLKRGQV YATEDKTSVD DRLSILLKGR
MKVSYRGHFL HNIYPCAFID SPEFRSTQMH KGEKFQVTIV ADDNCRFLCW SRERLTYFLE
SEPFLYEIFR YLIGKDITNK LYSLNDPTLN DKKVKKLEPQ MSLCTQISML EMRNSITSSS
DGEDGLHHFL RGSSSTASLP MSSPQQRASA KMKPIEEGVE DDDEVFVSPD ALKVHQLP
Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Bves 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).

special request, please contact us.

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.

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.
- 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: BVES

Target Details

Background:	Cell adhesion molecule involved in the establishment and/or maintenance of cell integrity.
	Involved in the formation and regulation of the tight junction (TJ) paracellular permeability
	barrier in epithelial cells (PubMed:16188940). Plays a role in VAMP3-mediated vesicular
	transport and recycling of different receptor molecules through its interaction with VAMP3
	(PubMed:20057356). Plays a role in the regulation of cell shape and movement by modulating
	the Rho-family GTPase activity through its interaction with ARHGEF25/GEFT
	(PubMed:18541910). Induces primordial adhesive contact and aggregation of epithelial cells in
	a Ca(2+)-independent manner. Also involved in striated muscle regeneration and repair and in
	the regulation of cell spreading (PubMed:11839816). Important for the maintenance of cardiac
	function. Plays a regulatory function in heart rate dynamics mediated, at least in part, through
	cAMP-binding and, probably, by increasing cell surface expression of the potassium channel
	KCNK2 and enhancing current density (PubMed:26642364). Is a caveolae-associated protein
	important for the preservation of caveolae structural and functional integrity as well as for hear
	protection against ischemia injury (PubMed:24066022). {ECO:0000250 UniProtKB:Q8NE79,
	ECO:0000269 PubMed:10882522, ECO:0000269 PubMed:11839816,
	ECO:0000269 PubMed:16188940, ECO:0000269 PubMed:18541910,
	ECO:0000269 PubMed:20057356, ECO:0000269 PubMed:22354168,
	ECO:0000269 PubMed:24066022}.
Molecular Weight:	42.2 kDa Including tag.
UniProt:	Q9ES83
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 gurantee
	though.
Comment:	Protein has not been tested for activity yet. 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

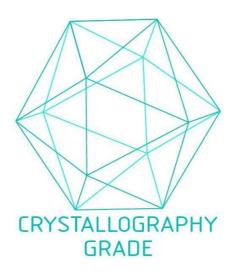


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process