Datasheet for ABIN3137159

Calsyntenin 1 Protein (CLSTN1) (AA 29-825) (rho-1D4 tag)

1 Image

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Overview

Quantity:	1 mg
Target:	Calsyntenin 1 (CLSTN1)
Protein Characteristics:	AA 29-825
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Calsyntenin 1 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	ARVNKHKPWL EPTYHGIVTE NDNTVLLDPP LIALDKDSPL RFAESFEVTV TKEGEICGFK IHGQNVPFDA VVVDKSTGEG IIRSKEKLDC ELQKDYTFTI QAYDCGKGPD GTGVKKSHKA TVHIQVNDVN EYAPVFKEKS YKAAVVEGKQ HSSILRVEAV DADCSPQFSQ ICSYEILTPD VPFTVDKDGY IKNTEKLNYG KEHQYKLTVT AYDCGKKRAT EDVLVKISVK PTCSPGWQGW SSRIEYEPGT GALAVFPSIH LETCDEPVAS VQATVELETS HIGKGCDRDT YSEKSLHRLC GAAAGTSELL PSPSSSFNWT VGLPTDNGHD SDQVFEFNGT QAVRIPDGVV TLDPKEPFTI SVWMRHGPFG RKKETILCSS DKTDMNRHHY SLYVHGCRLV FLLRQDPSEE KKYRPAEFHW KLNQVCDEDW HHFVLNVEVP SVTLYVDGIP HEPFSVTEDY PLHPTKIETQ LVVGACWQEY SGVESGNETE PATMASAGGD LHMTQFFRGN LAGLTVRSGK LADKKVIDCL YTCKEGLDLQ VPEDANRGVQ IQASSSQAVL TLEGDNVGEL DKAMQHISYL NSRQFPTPGI RRLKITSTVK CFNEAACIEV PPVEGYVMVL QPEEPKISLS GVHHFARAAS EFESAEGISL FPELRIISTI TREVEPEADG SEDPTVQESL VSEEIVHDLD TCEVTVEGDE LNAEQESLEV DVTRLQQKGI

	EASHSDLGVV FTGVETMASY EEVLHLLRYR NWHTRSLLDR KFKLICSELN GRYLSNEFKV EVNVIHTANP VEHANHM **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. • Mouse Clstn1 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. 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.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	Calsyntenin 1 (CLSTN1)
Alternative Name:	Clstn1 (CLSTN1 Products)
Background:	Induces KLC1 association with vesicles and functions as a cargo in axonal anterograde transport. Complex formation with APBA2 and APP, stabilizes APP metabolism and enhances APBA2-mediated suppression of beta-APP40 secretion, due to the retardation of intracellular APP maturation. In complex with APBA2 and C99, a C-terminal APP fragment, abolishes C99 interaction with PSEN1 and thus APP C99 cleavage by gamma-secretase, most probably through stabilization of the direct interaction between APBA2 and APP. As intracellular fragment AlcICD, suppresses APBB1-dependent transactivation stimulated by APP C-terminal intracellular fragment (AICD), most probably by competing with AICD for APBB1-binding. May modulate calcium-mediated postsynaptic signals. {ECO:0000269|PubMed:12972431, ECO:0000269|PubMed:17332754}.
Molecular Weight:	89.9 kDa Including tag.
UniProt:	Q9EPL2

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

Handling

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

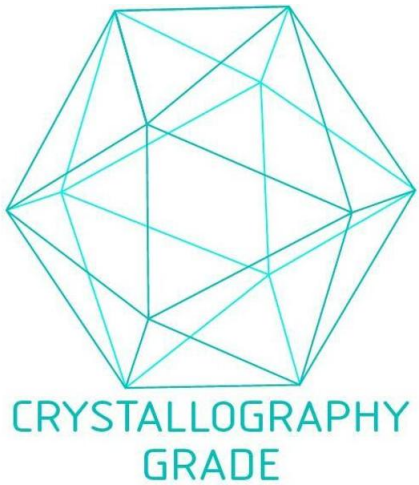

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process