antibodies

# Datasheet for ABIN3091943 Calsyntenin 1 Protein (CLSTN1) (AA 29-859) (His tag)



Overview

Image

Quantity:	1 mg
Target:	Calsyntenin 1 (CLSTN1)
Protein Characteristics:	AA 29-859
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Calsyntenin 1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

### Product Details

Sequence:	ARVNKHKPWL EPTYHGIVTE NDNTVLLDPP LIALDKDAPL RFAESFEVTV TKEGEICGFK
	IHGQNVPFDA VVVDKSTGEG VIRSKEKLDC ELQKDYSFTI QAYDCGKGPD GTNVKKSHKA
	TVHIQVNDVN EYAPVFKEKS YKATVIEGKQ YDSILRVEAV DADCSPQFSQ ICSYEIITPD
	VPFTVDKDGY IKNTEKLNYG KEHQYKLTVT AYDCGKKRAT EDVLVKISIK PTCTPGWQGW
	NNRIEYEPGT GALAVFPNIH LETCDEPVAS VQATVELETS HIGKGCDRDT YSEKSLHRLC
	GAAAGTAELL PSPSGSLNWT MGLPTDNGHD SDQVFEFNGT QAVRIPDGVV SVSPKEPFTI
	SVWMRHGPFG RKKETILCSS DKTDMNRHHY SLYVHGCRLI FLFRQDPSEE KKYRPAEFHW
	KLNQVCDEEW HHYVLNVEFP SVTLYVDGTS HEPFSVTEDY PLHPSKIETQ LVVGACWQEF
	SGVENDNETE PVTVASAGGD LHMTQFFRGN LAGLTLRSGK LADKKVIDCL YTCKEGLDLQ
	VLEDSGRGVQ IQAHPSQLVL TLEGEDLGEL DKAMQHISYL NSRQFPTPGI RRLKITSTIK
	CFNEATCISV PPVDGYVMVL QPEEPKISLS GVHHFARAAS EFESSEGVFL FPELRIISTI
	TREVEPEGDG AEDPTVQESL VSEEIVHDLD TCEVTVEGEE LNHEQESLEV DMARLQQKGI

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	EVSSSELGMT FTGVDTMASY EEVLHLLRYR NWHARSLLDR KFKLICSELN GRYISNEFKV
	EVNVIHTANP MEHANHMAAQ PQFVHPEHRS FVDLSGHNLA NPHPFAVVPS T
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human CLSTN1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.

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### Product Details

#### 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. The 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 (By similarity). {ECO:0000250,
	ECO:0000269 PubMed:12972431}.
Molecular Weight:	93.9 kDa Including tag.
	00/005
UniProt:	094985
UniProt: Application Details	094985
	094985 In addition to the applications listed above we expect the protein to work for functional studies
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Handling Advice:

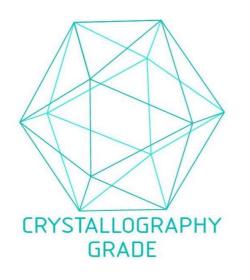
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Avoid repeated freeze-thaw cycles.

### Handling

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

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