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Datasheet for ABIN3128795 Syntaxin 17 Protein (STX17) (AA 2-301) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	Syntaxin 17 (STX17)
Protein Characteristics:	AA 2-301
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Syntaxin 17 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)
Product Details	
Sequence:	SEDEEKVKLR RLEPAIQKFT KIVIPTDLER LRKHQINIEK YQRCRIWDKL HEEHINAGRT
	VQQLRSNIRE MEKLCLKVHK DDLVLLKRMI DPVKEAAATA TAEFLQLHLE SVEELKKQVN
	DEELLQPSLT RSTTVDGVLH TGEAEAASQS LTQIYALPEI PQDQNAAESW ETLEADLIEL
	SHLVTDMSLL VSSQQEKIDS IADHVNSAAV NVEEGTKNLQ KAAKYKLAAL PVAGALIGGV
	VGGPIGLLAG FKVAGIAAAL GGGVLGFTGG KLIQRRKQKM MEKLTSSCPD LPSQSDKKRS
	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 Stx17 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

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	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.
	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:	Syntaxin 17 (STX17)
Alternative Name:	Stx17 (STX17 Products)

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Target Details

Background:	SNAREs, soluble N-ethylmaleimide-sensitive factor-attachment protein receptors, are essential
	proteins for fusion of cellular membranes. SNAREs localized on opposing membranes
	assemble to form a trans-SNARE complex, an extended, parallel four alpha-helical bundle that
	drives membrane fusion. STX17 is a SNARE of the autophagosome involved in autophagy
	through the direct control of autophagosome membrane fusion with the lysosome membrane.
	May also play a role in the early secretory pathway where it may maintain the architecture of
	the endoplasmic reticulum-Golgi intermediate compartment/ERGIC and Golgi and/or regulate
	transport between the endoplasmic reticulum, the ERGIC and the Golgi (By similarity).
	{ECO:0000250 UniProtKB:P56962}.
Molecular Weight:	34.3 kDa Including tag.
UniProt:	Q9D0I4
Pathways:	Synaptic Vesicle Exocytosis
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)

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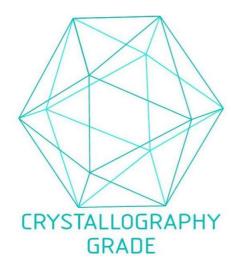


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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