

Datasheet for ABIN3134969
STT3B Protein (AA 2-823) (rho-1D4 tag)



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Overview

Quantity:	1 mg
Target:	STT3B
Protein Characteristics:	AA 2-823
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This STT3B protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	AEPSAPESKH KSSLNSSPWS GLMALGNSRH GHHGPGTQSA SSAAAPKPGP PAGLSGGLSQ PAGWQSLLSF TILFLAWLAG FSSRLFAVIR FESIIHEFDP WFNIRSTHHL ASHGFYEFLN WFDERAWYPL GRIVGGTVYP GLMITAGLIH WILNTLNITV HIRDVCVFLA PTFSGLTSIS TFLLTRELWN QGAGLLAACF IAIVPGYISR SVAGSFDNEG IAIFALQFTY YLWVKSVKTG SVFWTMCCCL SYFYMVSAWG GYVFIINLIP LHVFLLLMQ RYSKRVIYAY STFYIVGLIL SMQIPFVG FQ PIRTSEHMAA AGVFALLQAY AFLQYLRDRL TKQEFQTLFF LGVSLAAGAV FLSVIYLYT GYIAPWSGRF YSLWDTGYAK IHIPIIASVS EHQPPTWVSF FFDLHILVCT FPAGLWFCIK NINDERVFVA LYAISAVYFA GVMVRLMLTL TPVVCMLSAI AFSNVFEHYL GDDMKRENPP VEDSSDEDDK RNPGNLYDKA GKVRKHVTEQ EKPEEGLGPN IKSIVTMLML MLLMMFAVHC TWVTSNAYSS PSVVLASYNH DGTRNILDDF REAYFWLRQN TDEHARVMSW WDYGYQIAGM ANRTTLVDNN TWNNSHIALV GKAMSSNETA AYKIMRSLDV DYVLVIFGGV IGYSGDDINK FLWMVRIAEG EHPKDIREGD YFTQQGEFRV DKAGSPTLLN CLMYKMSYYR
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FGEMQLDFRT PPGFDTRNA EIGNKDIKFK HLEEFTSEH WLVRIYKVKA PDNRETLGHK
PRVTNIVPKQ KYLSKTTKR KRGYVKNKLK FKKGKTSKK TV

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Mouse Stt3b 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). <p>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.</p> <p>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.</p> <p>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).</p> <p>When you order this made-to-order protein you will only pay upon receipt 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.</p> <p>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.</p> <p>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.</p>
Purification:	<p>Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none">1. Membrane proteins are fractionated 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 chromatography. 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:	STT3B
Alternative Name:	Stt3b (STT3B Products)
Background:	<p>Catalytic component of oligosaccharyltransferase (OST) complex which catalyzes the transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains. N-glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). STT3B is present in a small subset of OST complexes and mediates both cotranslational and post-translational N-glycosylation of target proteins: STT3B-containing complexes are required for efficient cotranslational glycosylation and while they are less competent than STT3A-containing complexes for cotranslational glycosylation, they have the ability to mediate glycosylation of some nascent sites that are not accessible for STT3A. STT3B-containing complexes also act post-translationally and mediate modification of skipped glycosylation sites in unfolded proteins. Plays a role in ER-associated degradation (ERAD) pathway that mediates ubiquitin-dependent degradation of misfolded endoplasmic reticulum proteins by mediating N-glycosylation of unfolded proteins, which are then recognized by the ERAD pathway and targeted for degradation (By similarity). {ECO:0000250}.</p>
Molecular Weight:	94.3 kDa Including tag.
UniProt:	Q3TDQ1

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.
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

Application Details

	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)