Datasheet for ABIN3134116

STT3A Protein (AA 1-705) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	STT3A
Protein Characteristics:	AA 1-705
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STT3A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MTKLGFLRLS YEKQDTLLKL LILSMAAVLS FSTRLFAVLR FESVIHEFDP YFNYRTTRFL AEEGFYKFHN WFDDRAWYPL GRIIGGTIYP GLMITSAAIY HVLHFFHITI DIRNVCVFLA PLFSSFTTIV TYHLTKELKD AGAGLLAAAM IAVVPGYISR SVAGSYDNEG IAIFCMLLTY YMWIKAVKTG SIYWAAKCAL AYFYMVSSWG GYVFLINLIP LHVLVLMLTG RFSHRIYVAY CTVYCLGTIL SMQISFVGFQ PVLSSEHMAA FGVFGLCQIH AFVDYLRSKL NPQQFEVLFR SVISLVGFVL LTVGALLMLT GKISPWTGRF YSLLDPSYAK NNIPIIASVS EHQPTTWSSY YFDLQLLVFM FPVGLYYCFS NLSDARIFII MYGVTSMYFS AVMVRLMLVL APVMCILSGI GVSQVLSTYM KNLDISRPDK KSKKQQDSTY PIKNEVASGM ILVMAFFLIT YTFHSTWVTS EAYSSPSIVL SARGGDGSRI IFDDFREAYY WLRHNTPEDA KVMSWWDYGY QITAMANRTI LVDNNTWNNT HISRVGQAMA STEEKAYEIM RELDVSYVLV IFGGLTGYSS DDINKFLWMV RIGGSTETGR HIKENDYYTP TGEFRVDREG SPVLLNCLMY KMCYYRFGQV YTEAKRPPGF

	DRVRNAEIGN KDFELDVLEE AYTTEHWLVR IYKVKDLDNR GLSRT **Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made in Germany - from design to production - by highly experienced protein experts. • Protein expressed with ALiCE® and purified in one-step affinity chromatography • These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). • 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 try to ensure that you receive soluble 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. Expression System: • ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. • During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein! Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. • The protein's absorbance will be measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	STT3A
Alternative Name:	Stt3a (STT3A Products)
Background:	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A (Oligosaccharyl transferase subunit STT3A) (STT3-A) (EC 2.4.99.18) (B5) (Integral membrane protein 1),FUNCTION: Catalytic subunit of the oligosaccharyl transferase (OST) complex that catalyzes the initial transfer of a defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol-pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains, the first step in protein N-glycosylation (By similarity). 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). All subunits are required for a maximal enzyme activity. This subunit contains the active site and the acceptor peptide and donor lipid-linked oligosaccharide (LLO) binding pockets (By similarity). STT3A is present in the majority of OST complexes and mediates cotranslational N-glycosylation of most sites on target proteins, while STT3B-containing complexes are required for efficient post-translational glycosylation and mediate glycosylation of sites that have been skipped by STT3A (By similarity). {ECO:0000250|UniProtKB:F1PJP5, ECO:0000250|UniProtKB:P39007, ECO:0000250|UniProtKB:P46977}.
Molecular Weight:	80.6 kDa
UniProt:	P46978

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:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

Application Details

	During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months