

Datasheet for ABIN7555660

STT3A Protein (AA 1-705) (His tag)



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Overview

Quantity:	1 mg
Target:	STT3A
Protein Characteristics:	AA 1-705
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This STT3A protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant STT3A Protein expressed in mammalian cells.
Sequence:	MTKFGFLRLS YEKQDTLLKL LILSMAAVLS FSTRFAVLR FESVIHEFDP YFNRYRTTRFL AEEGFYKFHN WFDDRAWYPL GRIIGGTIYP GLMITSAAIY HVLHFFHITI DIRNVCVFLA PLFSSFTTIV TYHLTKELKD AGAGLLAAAM IAVVPGYISR SVAGSYDNEG IAIFCMLLTY YMWIKAVKTG SICWAAKCAL AYFYMVSSWG GYVFLINLIP LHVVLMLTG RFSHRIYVAY CTVYCLGTIL SMQISFVGFG PVLSSSEHMAA FGVFGLCQIH AFVDYLRSLK NPQQFEVLFR SVISLVGFVL LTVGALLMLT GKISPWTGRF YSLLDPSYAK NNIPPIASVS EHQPPTWSSY YFDLQLLVFM FPGVLYYCFS NLSDARIFII MYGVTSMYFS AVMVRLMLVL APVMCILSGI GVSQVLSTYM KNLDISRPDK KSKKQQDSTY PIKNEVASGM ILVMAFFLIT YTFHSTWVTS EAYSSPSIVL SARGGDGSR IFFDFREAYY WLRHNTPEDA KVMSWWDYGY QITAMANRTI LVDNNTWNNT HISRVGQAMA STEEKAYEIM RELDVSYVLV IFGGLTGYSS DDINKFLWMV RIGGSTDTGK HIKENDYYTP TGEFRVDREG SPVLLNCLMY KMCYYRFGQV YTEAKRPPGF DRVRNAEIGN KDFELDVLEE AYTTEHWLVR IYKVKDLNDR GLSRT Sequence without tag. The

proposed Purification-Tag is based on experiences 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.

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, 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) (Transmembrane protein TMC),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 (PubMed:31831667, PubMed:34653363). N-glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon

Target Details

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 (PubMed:19167329). {ECO:0000250|UniProtKB:P39007, ECO:0000269|PubMed:19167329, ECO:0000269|PubMed:31831667, ECO:0000269|PubMed:34653363}.

Molecular Weight:	80.5 kDa
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UniProt:	P46977
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Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Buffer:	The buffer composition is at the discretion of the manufacturer.
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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