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# STT3B Protein (AA 559-826) (His tag)



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Quantity:	1 mg
Target:	STT3B
Protein Characteristics:	AA 559-826
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STT3B protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### **Product Details**

Sequence:	SNAYSSPSVV LASYNHDGTR NILDDFREAY FWLRQNTDEH ARVMSWWDYG YQIAGMANRT

TLVDNNTWNN SHIALVGKAM SSNETAAYKI MRTLDVDYVL VIFGGVIGYS GDDINKFLWM VRIAEGEHPK DIRESDYFTP QGEFRVDKAG SPTLLNCLMY KMSYYRFGEM QLDFRTPPGF DRTRNAEIGN KDIKFKHLEE AFTSEHWLVR IYKVKAPDNR ETLDHKPRVT NIFPKQKYLS

KKTTKRKRGY IKNKLVFKKG KKISKKTV

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.
- Human STT3B Protein (raised in E. Coli) 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

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 bacterial culture:

- 1. 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.
- 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.

Sterility:

0.22 um filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

## **Target Details**

Target:	STT3B
Alternative Name:	STT3B (STT3B Products)
Background: Catalytic subunit of the N-oligosaccharyl transferase (OST) complex which catalyzes to transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor transfer oligosaccharide from a lipid-linked oligo	

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. Mediates glycosylation of the disease variant AMYL-TTR 'Asp-38' of TTR at 'Asn-118', leading to its degradation.

{ECO:0000269|PubMed:19167329, ECO:0000269|PubMed:22607976}.

Molecular Weight: 32.2 kDa Including tag.

UniProt: Q8TCJ2

### **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.

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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

Comment:

Format:

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.

# Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)