

Datasheet for ABIN3111354

**NDST3 Protein (AA 1-873) (Strep Tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	NDST3
Protein Characteristics:	AA 1-873
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NDST3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Sequence:	MSFIMKLHRH FQRTVILLAT FCMVSIISA YYLYSGYKQE NELSETASEV DCGDLQHLPY QLMEVKAMKL FASRTDPTV LVFVESQYSS LGQDIIMILE SSRFQYHIEI APGKGDLPLV IDKMKGYIL IYENILKYI NMDSWNRSL D KYCVEYGVG VIGFHKTSEK SVQSFQLKGF PFSIYGNLAV KDCCINPHSP LIRVTKSSKL EKGSLPGTDW TVFQINHSAY QPVIFAKVKT PENLSPSISK GAFYATIIHD LGLHDGIQRV LFGNNLNFNL HKLIFIDAIS FLGSKRLTLS LDRYILVDID DIFVGKEGTR MNTNDVKALL DTQNLLRAQI TNFTFNLGFS GKFYHTGTTEE EDEGDDCLLG SVDEFWWFPH MWSHMQPHLF HNESSLVEQM ILNKKFALEH GIPTDMGYAV APHHSGVYPV HVQLYEAWKK VWNKITSTE EYPHLKPARY RRGFIHKNIM VLPRQTCGLF THTIFYKEYP GGPKELDKSI QGGELFFT VV LNPISIFMTH LSNYGNDR LG LYTFVNLANF VKSWTNLRLQ TLPPVQLAHK YFELFPDQKD PLWQNPCDDK RHRDIWSKEK TCDRLPKFLV IGPQKTGTTA LYLFLVMHPS ILSNSPSPKT FEEVQFFNRN NYHRGIDWYM DFFPVPSNVT TDFLFEKSAN YFHSEEAPKR AASLVPKAKI ITILIDPSDR AYSWYQHQRS HEDPAALKFS FYEVISAGPR
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APSELRALQK RCLVPGWYAS HIERWLVIYFP PFQLLIIDGQ QLRTDPATVM DEVQKFLGVL  
PHYNYSEALT FDSHKGFWCQ LLEEGTKKCL GKSKGRKYPP MDSDSRTFLS SYYRDHNVEL  
SKLLHKLGGP LPSWLRQELQ KVR

**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.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

#### 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 in several dilutions and is measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

## Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. 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.</li></ol>
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

## Target Details

Target:	NDST3
Alternative Name:	NDST3 ( <a href="#">NDST3 Products</a> )
Background:	Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 3 (Glucosaminyl N-deacetylase/N-sulfotransferase 3) (NDST-3) (hNDST-3) (N-heparan sulfate sulfotransferase 3) (N-HSST 3) [Includes: Heparan sulfate N-deacetylase NDST3 (EC 3.-.-.), [heparan sulfate]-glucosamine N-sulfotransferase NDST3 (EC 2.8.2.8)],FUNCTION: Essential bifunctional enzyme that catalyzes both the N-deacetylation and the N-sulfation of glucosamine (GlcNAc) of the glycosaminoglycan in heparan sulfate. Modifies the GlcNAc-GlcA disaccharide repeating sugar backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis. Has high deacetylase activity but low sulfotransferase activity. {ECO:0000269 PubMed:9915799}.
Molecular Weight:	100.9 kDa
UniProt:	<a href="#">O95803</a>
Pathways:	<a href="#">Glycosaminoglycan Metabolic Process</a>

## 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

## Application Details

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.

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Restrictions: For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## Images



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process