antibodies.com

Datasheet for ABIN3113894 NDST2 Protein (AA 1-883) (Strep Tag)



Overview

Quantity:	1 mg
Target:	NDST2
Protein Characteristics:	AA 1-883
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NDST2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MLQLWKVVRP ARQLELHRLI LLLIAFSLGS MGFLAYYVST SPKAKEPLPL PLGDCSSGGA
	AGPGPARPPV PPRPPRPPET ARTEPVVLVF VESAYSQLGQ EIVAILESSR FRYSTELAPG
	RGDMPTLTDN THGRYVLVIY ENLLKYVNLD AWSRELLDRY CVEYGVGIIG FFRAHEHSLL
	SAQLKGFPLF LHSNLGLRDY QVNPSAPLLH LTRPSRLEPG PLPGDDWTIF QSNHSTYEPV
	LLASLRPAEP AVPGPVLRRA RLPTVVQDLG LHDGIQRVLF GHGLSFWLHK LIFVDAVAYL
	TGKRLCLDLD RYILVDIDDI FVGKEGTRMK VADVEALLTT QNKLRTLVPN FTFNLGFSGK
	FYHTGTEEED AGDDMLLKHR KEFWWFPHMW SHMQPHLFHN RSVLADQMRL NKQFALEHGI
	PTDLGYAVAP HHSGVYPIHT QLYEAWKSVW GIQVTSTEEY PHLRPARYRR GFIHNGIMVL
	PRQTCGLFTH TIFYNEYPGG SRELDRSIRG GELFLTVLLN PISIFMTHLS NYGNDRLGLY
	TFESLVRFLQ CWTRLRLQTL PPVPLAQKYF ELFPQERSPL WQNPCDDKRH KDIWSKEKTC
	DRLPKFLIVG PQKTGTTAIH FFLSLHPAVT SSFPSPSTFE EIQFFNSPNY HKGIDWYMDF
	FPVPSNASTD FLFEKSATYF DSEVVPRRGA ALLPRAKIIT VLTNPADRAY SWYQHQRAHG

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3113894 | 05/07/2024 | Copyright antibodies-online. All rights reserved. DPVALNYTFY QVISASSQTP LALRSLQNRC LVPGYYSTHL QRWLTYYPSG QLLIVDGQEL RTNPAASMES IQKFLGITPF LNYTRTLRFD DDKGFWCQGL EGGKTRCLGR SKGRRYPDMD TESRLFLTDF FRNHNLELSK LLSRLGQPVP SWLREELQHS SLG 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 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 posttranslational 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®): 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. 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. 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)</td>

Target Details

Target:	NDST2
Alternative Name:	NDST2 (NDST2 Products)
Background:	Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 2 (EC 2.8.2.8) (Glucosaminyl N-
	deacetylase/N-sulfotransferase 2) (NDST-2) (N-heparan sulfate sulfotransferase 2) (N-HSST 2)
	[Includes: Heparan sulfate N-deacetylase 2 (EC 3), Heparan sulfate N-sulfotransferase 2 (EC
	2.8.2)],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. Plays a role in
	determining the extent and pattern of sulfation of heparan sulfate. Required for the exosomal
	release of SDCBP, CD63 and syndecan (PubMed:22660413). {ECO:0000269 PubMed:10758005
	ECO:0000269 PubMed:12634318, ECO:0000269 PubMed:16343444,
	ECO:0000269 PubMed:22660413}.
Molecular Weight:	100.9 kDa
UniProt:	P52849
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones, Glycosaminoglycan Metabolic
	Process
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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3113894 | 05/07/2024 | Copyright antibodies-online. All rights reserved.

Application Details 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. 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. 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)	