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NDST4 Protein (AA 1-872) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	NDST4
Protein Characteristics:	AA 1-872
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NDST4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MNLILKFRRS FRTLIVLLAT FCLVSILISA YFLYSGYKQE MTLIETTAEA ECADIKDLPY RSIELRTIKP
IDTSKTDPTV LLFVESQYSQ LGQDIIAILE SSRFQYQMVI APGKGDIPPL TDSGKGKYTL IIYENILKYV
SMDSWNRELL EKYCIEYSVS IIGFHKANEN SLPTTQLKGF PLNLFNNVAL KDCSVNPQSP
LLHITKGPKV EKGPLPGEDW TIFQYNHSTY QPVLLTELQS EKSLSFLSSQ TLYATIIQDL
GLHDGIQRVL FGNNLNFWLH KLIFIDAISF LSGKRLTLSL DRYILVDIDD IFVGKEGTRM
NVKDVKALLE TQNLLRTQVA NFTFNLGFSG KFYHTGTEEE DEGDDLLLRS VDEFWWFPHM
WSHMQPHLFH NESSLVEQMI LNKEFALEHG IPINLGYAVA PHHSGVYPVH IQLYAAWKKV
WGIQVTSTEE YPHLKPARYR KGFIHNSIMV LPRQTCGLFT HTIFYKEYPG GPQELDKSIK
GGELFLTILL NPISIFMTHL SNYGNDRLGL YTFVNLANFV HSWTNLKLQT LPPVQLAHKY
FELFPEQKDP LWQNPCDDKR HKDIWSREKT CDHLPKFLVI GPQKTGTTAL YLFLLMHPSI
ISNLPSPKTF EEVQFFNGNN YHKGIEWYMD FFPTPSNITS DFLFEKSANY FHSEEAPKRA
ASLVPKAKII TILIDPSDRA YSWYQHQRSH EDPAALRFNF YEVITTGHWA PPDLKTLQRR

CLVPGWYAVH IERWLAYFST SQLLIIDGQQ LRSDPATVMD EVQKFLGVTP HYNYSEALTF
DPQKGFWCQL LEGGKTKCLG KSKGRKYPPM DSESRTFLSS YYRDHNVELS KLLHRLGQPL
PSWLROELOK VR

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.
	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)
Target Details	
Target:	NDST4
Alternative Name:	Ndst4 (NDST4 Products)
Background:	Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4 (EC 2.8.2.8) (Glucosaminyl N-
	deacetylase/N-sulfotransferase 4) (NDST-4) (N-heparan sulfate sulfotransferase 4) (N-HSST 4)
	[Includes: Heparan sulfate N-deacetylase 4 (EC 3), Heparan sulfate N-sulfotransferase 4 (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. Has low deacetylase
	activity but high sulfotransferase activity. {ECO:0000269 PubMed:11087757}.
Molecular Weight:	100.7 kDa
UniProt:	Q9EQW8
Pathways:	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.
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

Application Details

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)