

Datasheet for ABIN3137197 NDST4 Protein (AA 1-872) (Strep Tag)



Overview

Quantity:	250 μg
Target:	NDST4
Protein Characteristics:	AA 1-872
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NDST4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

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Product Details		
Brand:	AliCE®	
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 PSWLRQELQK 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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®). Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC). Grade: custom-made **Target Details** NDST4 Target: Alternative Name: Ndst4 (NDST4 Products) Background: Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4 (EC 2.8.2.8) (Glucosaminyl Ndeacetylase/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** In addition to the applications listed above we expect the protein to work for functional studies **Application Notes:** 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 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

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Application Details

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Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months