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## Datasheet for ABIN3137187 NDST3 Protein (AA 1-873) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	NDST3
Protein Characteristics:	AA 1-873
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NDST3 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	MSFIMKPHRH FQRTLILLAT FCMVSIIISA YYLYSGYKQE SEVSGRASEV DCGDLQHIPS
	RLMEVRRTMI SDASRTDPTV LVFVESQYSS LGQDIIMMLE SIRFHYHTEI APGKGDLPAL
	TDNVKGKYVL IIYENILKYI NMDSWNRSLL DKYCIEYGVG IIGFHKTSEK NLQSFQFRGF
	PFSISGNLAV KDCCINPHSP LLRVTKSSKL DRGSLPGTDW TVFQINHSTY QPVIFAKVKT
	PENLSPPISK HAFYATIIHD LGLHDGIQRV LFGNNLNFWL HKLIFIDAIS FLSGKRLTLS LDRYILVDID
	DIFVGKEGTR MNTNDVKALL DTQNLLRTQI TNFTFNLGFS GKFYHTGTEE EDEGDDCLLG
	SVDEFWWFPH MWSHMQPHLF HNESSLIEQM ILNKKFALEH GIPTDMGYAV SPHHSGVYPV
	HVQLYEAWKK VWNIKITSTE EYPHLKPARY RRGFIHKNIM VLPRQTCGLF THTIFYKEYP
	GGPRELDKSI HGGELFFTVV LNPISIFMTH LSNYGNDRLG LYTFVNLANF VQTWTNLRLQ
	TLPPAQLAHK YFELFPDQKD PLWQNPCDDK RHRDIWSKEK TCDRLPKFLV IGPQKTGTTA
	LCLFLIMHPS ILSNSPSPKS FEEVQFFNRN NYHRGIDWYM DFFPVPSNVT TDFLFEKSAN
	YFHSEDAPKR AASLVPKAKI ITILIDPSDR AYSWYQHQRS HEDPAALKFS FYEVISAGPN

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	APWELRTLQK RCLVPGWYAN HIERWLVYFP PFQLLIIDGQ HLRTTPATVM DEVQKFLGVS
	PHYNYSEALT FDSHKGFWCQ LLEEGKTKCL GKSKGRKYPP MDSDSRAFLS SYYRDHNVEL
	SKLLHRLGQP LPSWLRQELQ KVR
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Ndst3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect
	cells:
	1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with
	different detergents (detergent screen). Samples are analyzed by Western blot.
	2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
	3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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Purity:945 % as determined by SDS PACE, Size Exclusion Chromatography and Western Blot.Sterility0.22 µm filteredEndotoxin LevetProtein is endotoxin-free.Grade:Crystallography gradeTarget DetaillsTarget DetaillsTarget Normanni (NDST3NDST3Alternative Name:NDST3Background:Essential bifunctional enzyme that catalyzes both the N descetylation and the N-sulfation of glucosaminoglycan in heperan 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 sulfortamefreese ectivity. (ECO.000209/PubMed11087767).Molecular Weight:102.2 kDa Including tag.UnProt:OSEQH7Pathways:Glycosaminoglycan Metabolic ProcessApplication 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 effer a gurantee trough.Comment:Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein haw 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 onlyEndmatureLiquidEuroraticLiquidBurlen:100 mm NaCL 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer	Product Details	
Endotoxin Level:       Protein is endotoxin-free.         Grade:       Crystallography grade         Target Details       Target:         Target:       NDS13         Atternative Name:       NdS13 (NDS13 Products)         Background:       Essential bifunctional enzyme that catalyzes both the N-deacetylation and the N-sulfation of glucosarrine (GlcNAc) of the glycosarrinoglycan 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 sulfortnansferase activity. (ECO.0000269)PubMed:11087757).         Molecular Weight:       102.2 kDa Including tag.         UniProt:       Q9EQH7         Pathways:       Glycosarninoglycan Metabolic Process         Application Details       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.         Comment:       Protein has not been tested for activity yet. In cases in which it is highly likely that the mecombinant protein with the default tag will be insoluble our protein lab may suggest a higher muleicular weight tag (eg. 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       Liquid	Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Grade:       Crystallography grade         Target Details       Target:         Target:       NDST3         Alternative Name:       Ndst3 (NDST3 Products)         Background:       Essential bifunctional enzyme that catalyzes both the N-deacetylation and the N-sulfation of glucosamine (CIcNAc) of the glycosaminoglycan in heparan sulfate. Modifies the CIcNAc-GICA 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:1108/757).         Molecular Weight:       102.2 kDa Including tag.         UniProt:       09E0H7         Pathways:       Glycosaminoglycan Metabolic Process         Application Details       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.         Comment:       Protein has not been tested for activity yet. 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       Liquid	Sterility:	0.22 µm filtered
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Format: Liquid	Restrictions:	For Research Use only
	Handling	
Buffer: 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	Format:	Liquid
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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