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Datasheet for ABIN3134642 ENOS Protein (AA 2-1202) (His tag)

Image



Overview

Quantity:	1 mg
Target:	ENOS (NOS3)
Protein Characteristics:	AA 2-1202
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ENOS protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	GNLKSVGQEP GPPCGLGLGL GLGLCGKQGP ASPAPEPSQA PAPPSPTRPA PDHSPPLTRP
	PDGPRFPRVK NWEVGSITYD TLSAQAQQDG PCTSRRCLGS LVFPRKLQSR PTQGPSPTEQ
	LLGQARDFIN QYYNSIKRSG SQAHEQRLQE VEAEVAATGT YQLRESELVF GAKQAWRNAP
	RCVGRIQWGK LQVFDARDCR TAQEMFTYIC NHIKYATNRG NLRSAITVFP QRCPGRGDFR
	IWNSQLIRYA GYRQQDGSVR GDPANVEITE LCIQHGWTPG NGRFDVLPLL LQAPDEPPEL
	FTLPPEMVLE VPLEHPTLEW FAALGLRWYA LPAVSNMLLE IGGLEFPAAP FSGWYMSSEI
	GMRDLCDPHR YNILEDVAVC MDLDTRTTSS LWKDKAAVEI NVAVLHSYQL AKVTIVDHHA
	ATASFMKHLE NEQKARGGCP ADWAWIVPPI SGSLTPVFHQ EMVNYFLSPA FRYQPDPWKG
	SAAKGAGITR KKTFKEVANA VKISASLMGT VMAKRVKATI LYGSETGRAQ SYAQQLGRLF
	RKAFDPRVLC MDEYDVVSLE HEALVLVVTS TFGNGDPPEN GESFAAALME MSGPYNSSPR
	PEQHKSYKIR FNSVSCSDPL VSSWRRKRKE SSNTDSAGAL GTLRFCVFGL GSRAYPHFCA
	FARAVDTRLE ELGGERLLQL GQGDELCGQE EAFRGWAQAA FQAACETFCV GEDAKAAARD

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	IFSPKRSWKR QRYRLSTQAE SLQLLPGLTH VHRRKMFQAT ILSVENLQSS KSTRATILVR
	LDTGGQEGLQ YQPGDHIGVC PPNRPGLVEA LLSRVEDPPP STEPVAVEQL EKGSPGGPPP
	GWVRDPRLPP CTLRQALTYF LDITSPPSPR LLRLLSTLAE ESSEQQELEA LSQDPRRYEE
	WKWFSCPTLL EVLEQFPSVA LPAPLILTQL PLLQPRYYSV SSAPSAHPGE IHLTIAVLAY
	RTQDGLGPLH YGVCSTWMSQ LKAGDPVPCF IRGAPSFRLP PDPNLPCILV GPGTGIAPFR
	GFWQDRLHDI EIKGLQPAPM TLVFGCRCSQ LDHLYRDEVL DAQQRGVFGQ VLTAFSRDPG
	SPKTYVQDLL RTELAAEVHR VLCLEQGHMF VCGDVTMATS VLQTVQRILA TEGGMELDEA
	GDVIGVLRDQ QRYHEDIFGL TLRTQEVTSR IRTQSFSLQE RQLRGAVPWS FDPPGPEIPG S
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Nos3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. 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.
	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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.

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	 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	ENOS (NOS3)
Alternative Name:	Nos3 (NOS3 Products)
Background:	Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway. NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets. May play a significant role in normal and abnormal limb development. {ECO:0000269 PubMed:9843834}.
Molecular Weight:	133.7 kDa Including tag.
UniProt:	P70313
Pathways:	ACE Inhibitor Pathway, Regulation of Systemic Arterial Blood Pressure by Hormones, Cellular Response to Molecule of Bacterial Origin, Myometrial Relaxation and Contraction, Signaling Events mediated by VEGFR1 and VEGFR2, Thromboxane A2 Receptor Signaling, VEGFR1 Specific Signals, VEGF Signaling
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 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.

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Application Details

Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
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