

Datasheet for ABIN3133627 NOS2 Protein (AA 1-1144) (Strep Tag)



Overview

Quantity:	250 µg
Target:	NOS2
Protein Characteristics:	AA 1-1144
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOS2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MACPWKFLFK VKSYQSDLKE EKDINNNVKK TPCAVLSPTI QDDPKSHQNG SPQLLTGTAQ
	NVPESLDKLH VTSTRPQYVR IKNWGSGEIL HDTLHHKATS DFTCKSKSCL GSIMNPKSLT
	RGPRDKPTPL EELLPHAIEF INQYYGSFKE AKIEEHLARL EAVTKEIETT GTYQLTLDEL
	IFATKMAWRN APRCIGRIQW SNLQVFDARN CSTAQEMFQH ICRHILYATN NGNIRSAITV
	FPQRSDGKHD FRLWNSQLIR YAGYQMPDGT IRGDAATLEF TQLCIDLGWK PRYGRFDVLP
	LVLQADGQDP EVFEIPPDLV LEVTMEHPKY EWFQELGLKW YALPAVANML LEVGGLEFPA
	CPFNGWYMGT EIGVRDFCDT QRYNILEEVG RRMGLETHTL ASLWKDRAVT EINVAVLHSF
	QKQNVTIMDH HTASESFMKH MQNEYRARGG CPADWIWLVP PVSGSITPVF HQEMLNYVLS
	PFYYYQIEPW KTHIWQNEKL RPRRREIRFR VLVKVVFFAS MLMRKVMASR VRATVLFATE
	TGKSEALARD LATLFSYAFN TKVVCMDQYK ASTLEEEQLL LVVTSTFGNG DCPSNGQTLK
	KSLFMLRELN HTFRYAVFGL GSSMYPQFCA FAHDIDQKLS HLGASQLAPT GEGDELSGQE

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 ABIN3133627 | 02/25/2025 | Copyright antibodies-online. All rights reserved. DAFRSWAVQT FRAACETFDV RSKHHIQIPK RFTSNATWEP QQYRLIQSPE PLDLNRALSS IHAKNVFTMR LKSQQNLQSE KSSRTTLLVQ LTFEGSRGPS YLPGEHLGIF PGNQTALVQG ILERVVDCPT PHQTVCLEVL DESGSYWVKD KRLPPCSLSQ ALTYFLDITT PPTQLQLHKL ARFATDETDR QRLEALCQPS EYNDWKFSNN PTFLEVLEEF PSLHVPAAFL LSQLPILKPR YYSISSSQDH TPSEVHLTVA VVTYRTRDGQ GPLHHGVCST WIRNLKPQDP VPCFVRSVSG FQLPEDPSQP CILIGPGTGI APFRSFWQQR LHDSQHKGLK GGRMSLVFGC RHPEEDHLYQ EEMQEMVRKR VLFQVHTGYS RLPGKPKVYV QDILQKQLAN EVLSVLHGEQ GHLYICGDVR MARDVATTLK KLVATKLNLS EEQVEDYFFQ LKSQKRYHED IFGAVFSYGA KKGSALEEPK ATRL 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:

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- 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.

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

Target:	NOS2
Alternative Name:	Nos2 (NOS2 Products)
Alternative Name: Background:	NoS2 (NOS2 Products) Nitric oxide synthase, inducible (EC 1.14.13.39) (Inducible NO synthase) (Inducible NOS) (iNOS) (Macrophage NOS) (MAC-NOS) (NOS type II) (Peptidyl-cysteine S-nitrosylase NOS2),FUNCTION: Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body (PubMed:7503239). In macrophages, NO mediates tumoricidal and bactericidal actions. Also has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such PTGS2/COX2 (PubMed:16373578). As component of the iNOS-S100A8/9 transnitrosylase complex involved in the selective inflammatory stimulus-dependent S- nitrosylation of GAPDH implicated in regulation of the GAIT complex activity and probably multiple targets including ANXA5, EZR, MSN and VIM (By similarity). Involved in inflammation, enhances the synthesis of pro-inflammatory mediators such as IL6 and IL8 (By similarity). {EC0:0000250 UniProtKB:P35228, EC0:0000250 UniProtKB:P79290, EC0:0000269 PubMed:16373578, EC0:0000269 PubMed:7503239}.
Molecular Weight:	130.6 kDa
UniProt:	P29477
Pathways:	Retinoic Acid Receptor Signaling Pathway, Cellular Response to Molecule of Bacterial Origin, Inositol Metabolic Process, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process
Application Details	

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

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Application Details	
	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 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. 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