Datasheet for ABIN7563075

NOS2 Protein (AA 1-1144) (His tag)

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Overview

Quantity:	1 mg
Target:	NOS2
Protein Characteristics:	AA 1-1144
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOS2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Nos2 Protein expressed in mammalian cells.
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 DAFRSWAVQT FRAACETFDV RSKHHIQIPK RFTSNATWEP QQYRLIQSPE PLDLNRALSS

Product Details

	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 Purification-Tag is based on experiences 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NOS2
Alternative Name:	Nos2 (NOS2 Products)
Background:	Nitric oxide synthase, inducible (EC 1.14.13.39) (Inducible NO synthase) (Inducible NOS) (iNOS)

Target Details

	(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). {ECO:0000250|UniProtKB:P35228, ECO:0000250|UniProtKB:P79290, ECO:0000269|PubMed:16373578, ECO: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:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months

