Datasheet for ABIN7554738

NOS2 Protein (AA 1-1153) (His tag)

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Overview

Quantity:	1 mg
Target:	NOS2
Protein Characteristics:	AA 1-1153
Origin:	Human
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 TKFHQYAMNG EKDINNNVEK APCATSSPVT QDDLQYHNLS KQQNESPQPL VETGKKSPES LVKLDATPLS SPRHVRIKNW GSGMTFQDTL HHKAKGILTC RSKSCLGSIM TPKSLTRGPR DKPTPPDELL PQAIEFVNQY YGSFKEAKIE EHLARVEAVT KEIETTGTYQ LTGDELIFAT KQAWRNAPRC IGRIQWSNLQ VFDARSCSTA REMFEHICRH VRYSTNNGNI RSAITVFPQR SDGKHDFRVW NAQLIRYAGY QMPDGSIRGD PANVEFTQLC IDLGWKPKYG RFDVVPLVLQ ANGRDPELFE IPPDLVLEVA MEHPKYEWFR ELELKWYALP AVANMLLEVG GLEFPGCPFN GWYMGTEIGV RDFCDVQRYN ILEEVGRRMG LETHKLASLW KDQAVVEINI AVLHSFQKQN VTIMDHHSAA ESFMKYMQNE YRSRGGCPAD WIWLVPPMSG SITPVFHQEM LNYVLSPFYY YQVEAWKTHV WQDEKRRPKR REIPLKVLVK AVLFACMLMR KTMASRVRVT ILFATETGKS EALAWDLGAL FSCAFNPKVV CMDKYRLSCL EEERLLLVVT STFGNGDCPG NGEKLKKSLF MLKELNNKFR YAVFGLGSSM YPRFCAFAHD IDQKLSHLGA SQLTPMGEGD ELSGQEDAFR SWAVQTFKAA CETFDVRGKQ HIQIPKLYTS NVTWDPHHYR LVQDSQPLDL

Product Details

	SKALSSMHAK NVFTMRLKSR QNLQSPTSSR ATILVELSCE DGQGLNYLPG EHLGVCPGNQ PALVQGILER VVDGPTPHQT VRLEALDESG SYWVSDKRLP PCSLSQALTY FLDITTPPTQ LLLQKLAQVA TEEPERQRLE ALCQPSEYSK WKFTNSPTFL EVLEEFPSLR VSAGFLLSQL PILKPRFYSI SSSRDHTPTE IHLTVAVVTY HTRDGQGPLH HGVCSTWLNS LKPQDPVPCF VRNASGFHLP EDPSHPCILI GPGTGIAPFR SFWQQRLHDS QHKGVRGGRM TLVFGCRRPD EDHIYQEEML EMAQKGVLHA VHTAYSRLPG KPKVYVQDIL RQQLASEVLR VLHKEPGHLY VCGDVRMARD VAHTLKQLVA AKLKLNEEQV EDYFFQLKSQ KRYHEDIFGA VFPYEAKKDR VAVQPSSLEM SAL **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) (Hepatocyte NOS) (HEP-NOS) (Inducible NO

Target Details

	synthase) (Inducible NOS) (iNOS) (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:7531687, PubMed:7544004, PubMed:7682706, PubMed:7504305). In macrophages, NO mediates tumoricidal and bactericidal actions. Also has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such PTGS2/COX2 (By similarity). As component of the iNOS-S100A8/9 transnitrosylase complex involved in the selective inflammatory stimulus-dependent S-nitrosylation of GAPDH on 'Cys-247' implicated in regulation of the GAIT complex activity and probably multiple targets including ANXA5, EZR, MSN and VIM (PubMed:25417112). Involved in inflammation, enhances the synthesis of pro-inflammatory mediators such as IL6 and IL8 (PubMed:19688109). {ECO:0000250|UniProtKB:P29477, ECO:0000269|PubMed:19688109, ECO:0000269|PubMed:25417112, ECO:0000269|PubMed:7504305, ECO:0000269|PubMed:7531687, ECO:0000269|PubMed:7544004, ECO:0000269|PubMed:7682706}.
Molecular Weight:	131.1 kDa
UniProt:	P35228
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