Nitric Oxide-Associated Protein 1 (NOA1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nitric oxide-associated protein 1 (NOA1), Recombinant Protein
Full Product Name	Recombinant Human Nitric oxide-associated protein 1 (NOA1)
Product Gene Name	NOA1 recombinant protein
Product Synonym Gene Name	NOA1
Sequence	MLPARLPFRL LSLFLRGSAP TAARHGLREP LLERRCAAAS SFQHSSSLGR ELPYDPVDTE GFGEGGDMQE RFLFPEYILD PEPQPTREKQ LQELQQQQEE EERQRQQRRE ERRQQNLRAR SREHPVVGHP DPALPPSGVN CSGCGAELHC QDAGVPGYLP REKFLRTAEA DGGLARTVCQ RCWLLSHHRR ALRLQVSREQ YLELVSAALR RPGPSLVLYM VDLLDLPDAL LPDLPALVGP KQLIVLGNKV DLLPQDAPGY RQRLRERLWE DCARAGLLLA PGHQGPQRPV KDEPQDGENP NPPNWSRTVV RDVRLISAKT GYGVEELISA LQRSWRYRGD VYLVGATNAG KSTLFNTLLE SDYCTAKGSE AIDRATISPW PGTTLNLLKF PICNPTPYRM FKRHQRLKKD STQAEEDLSE QEQNQLNVLK KHGYVVGRVG RTFLYSEEQK DNIPFEFDAD SLAFDMENDP VMGTHKSTKQ VELTAQDVKD AHWFYDTPGI TKENCILNLL TEKEVNIVLP TQSIVPRTFV LKPGMVLFLG AIGRIDFLQG NQSAWFTVVA SNILPVHITS LDRADALYQK HAGHTLLQIP MGGKERMAGF PPLVAEDIML KEGLGASEAV ADIKFSSAGW VSVTPNFKDR LHLRGYTPEG TVLTVRPPLL PYIVNIKGQR IKKSVAYKTK KPPSLMYNVR KKKGKINV
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	78,458 Da
Sequence Positions	1-698, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	614919
3D Structure	ModBase 3D Structure for Q8NC60
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NOA1 recombinant protein	MBS1317448 is a recombinant protein targeting NOA1. Also known as Recombinant Human Nitric oxide-associated protein 1 (NOA1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of NOA1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOA1. It may not necessarily be applicable to this product.

NCBI GI #	14150078

NCBI GeneID	84273
NCBI Accession #	NP_115689.1
UniProt Primary Accession #	Q8NC60
UniProt Secondary Accession #	Q8N7L6; Q9BSQ9
UniProt Related Accession #	Q8NC60
GenBank Nucleotide #	NM_032313.3
NCBI Official Full Name	nitric oxide-associated protein 1
NCBI Official Synonym Full Names	nitric oxide associated 1
NCBI Official Symbol	NOA1
NCBI Official Synonym Symbols	MTG3; hNOA1; C4orf14; hAtNOS1; mAtNOS1
UniProt Protein Name	Nitric oxide-associated protein 1
Protein Family	Nitric oxide-associated protein
UniProt Gene Name	NOA1
UniProt Synonym Gene Names	C4orf14
NCBI Protein Information	nitric oxide-associated protein 1
NCBI Summary for NOA1	The protein encoded by this gene is a nuclear-encoded GTPase that functions in the mitochondrion. Upon translation, this protein is imported into the nucleus and then into the nucleolus before being exported to the mitochondrion. The encoded protein is required for oxygen-dependent regulation of mitochondrial respiratory complexes and for mitochondrial protein synthesis. [provided by RefSeq, Dec 2015]
UniProt Comments for NOA1	Involved in regulation of mitochondrial protein translation and respiration. Plays a role in mitochondria-mediated cell death. May act as a scaffolding protein or stabilizer of respiratory chain supercomplexes. Binds GTP.
Research Articles on NOA1	**1.** Our results uncovered an unexpected, mandatory detour of NOA1 through the nucleolus before uptake into mitochondria.
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