Nitric Oxide Synthase (NOS) Drosophila Melanogaster Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nitric oxide synthase (Nos), Recombinant Protein
Full Product Name	Recombinant Drosophila melanogaster Nitric oxide synthase (Nos), partial
Product Gene Name	Nos recombinant protein
Product Synonym Gene Name	Nos
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	91,268 Da
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.
3D Structure	ModBase 3D Structure for Q27571
Species	Drosophila melanogaster (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Nos recombinant protein	MBS1430855 is a recombinant protein targeting Nos. Also known as Recombinant Drosophila melanogaster Nitric oxide synthase (Nos), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Nos 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 Nos. It may not necessarily be applicable to this product.

NCBI GI #	78706870
NCBI GeneID	34495
NCBI Accession #	NP_001027240.1
UniProt Primary Accession #	Q27571
UniProt Secondary Accession #	Q4ABG3; Q4ABG4; Q4ABG5; Q4ABG6; Q4ABG7; Q7YU33; Q9U096; Q9VKP8; A4V0K9; A4V0L0
UniProt Related Accession #	Q27571
GenBank Nucleotide #	NM_001032069.2
NCBI Official Full Name	nitric oxide synthase, isoform F
NCBI Official Synonym Full Names	Nitric oxide synthase

NCBI Official Symbol	Nos
NCBI Official Synonym Symbols	CG6713; DmelCG6713; dNos; dNOS; DNOS; DNOS1; drNOSoxy; nNOS; nos; NOS
UniProt Protein Name	Nitric oxide synthase
UniProt Synonym Protein Names	dNOS
Protein Family	D-nopaline dehydrogenase
UniProt Gene Name	Nos
NCBI Protein Information	CG6713 gene product from transcript CG6713-RA
UniProt Comments for Nos	Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. Truncated isoforms (isoform 3-isoform 6) are able to form intracellular complexes with the full-length protein and serve as dominant negative inhibitors of the enzyme activity.
Research Articles on Nos	**1.** Here we demonstrate that the Drosophila relaxin receptor homolog Lgr3, a leucine-rich repeat-containing G-protein-coupled receptor, is required for Dilp8-dependent growth coordination and developmental delay during the regeneration checkpoint; we demonstrate that Lgr3 activity in both the CNS and PG is necessary for NOS activation in the PG following damage
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