

Recombinant Mouse Nos3 Protein, His&GST-tagged

Cat. No. Nos3-1836M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Nos3 Protein (Arg97-Lys485) with N-His&GST tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Arg97-Lys485
Description	Enables nitric-oxide synthase activity and scaffold protein binding activity. Involved in several processes, including heart development; negative regulation of muscle hyperplasia; and smooth muscle hyperplasia. Acts upstream of or within several processes, including lipopolysaccharide-mediated signaling pathway; nitric oxide biosynthetic process; and regulation of metal ion transport. Located in cytoplasm and nucleus. Is expressed in several structures, including alimentary system; cardiovascular system; genitourinary system; hemolymphoid system gland; and nervous system. Used to study aortic valve disease; essential hypertension; and persistent fetal circulation syndrome. Human ortholog(s) of this gene implicated in several diseases, including Alzheimer's disease (multiple); artery disease (multiple); eye disease (multiple); reproductive organ cancer (multiple); and vasculitis (multiple). Orthologous to human NOS3 (nitric oxide synthase 3).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 73.7 kDa

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	Accurate Molecular Mass: 74 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Nos3 nitric oxide synthase 3, endothelial cell [<i>Mus musculus</i> (house mouse)]
Official Symbol	Nos3
Synonyms	Nos3; nitric oxide synthase 3, endothelial cell; eNOS; Nos-3; ecNOS; 2310065A03Rik; nitric oxide synthase, endothelial; EC-NOS; NOS type III; NOSIII; cNOS; constitutive NOS; endothelial NOS; endothelial nitric oxide synthase; EC 1.14.13.39
Gene ID	18127

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mRNA Refseq	NM_008713
Protein Refseq	NP_032739
UniProt ID	P70313

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