

Active Recombinant Bovine NOS3 Protein

Cat. No. NOS3-22B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active recombinant bovine N-terminal His-tagged eNOS expressed in E. coli
Species	Bovine
Source	E.coli
ProteinLength	2-1205 aa
Description	Produces nitric oxide (NO) which is a messenger molecule with diverse functions.
Form	50 mM HEPES, pH 7.8, with 0.5 mM DTT, 0.5 mM EDTA, 300 mM sodium chloride, 2 mM calcium chloride, 10 µM tetrahydro-L-biopterin (hydrochloride), and 20% glycerol
Molecular Mass	134 kDa
Storage	At -80 centigrade. Stability: ≥ 1 year
Shipping	Dry ice in continental US; may vary elsewhere
Reference	1. Qian, J., and Fulton, D. Post-translational regulation of endothelial nitric oxide synthase in vascular endothelium. <i>Front. Physiol.</i> 4, 347 (2013). 2. Heiss, C., Rodriguez-Mateos, A., and Kelm, M. Central role of eNOS in the maintenance of endothelial homeostasis. <i>Antioxid. Redox Signal.</i> 22(14), 1230-1242 (2015). 3. Siragusa, M., and Fleming, I. The eNOS signalosome and its link to endothelial dysfunction. <i>Pflugers Arch.</i> 468(7), 1125-1137 (2016).

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Unit Definition

One unit of enzyme produces 1 nmol of nitric oxide per minute at 37 centigrade in 50 mM HEPES, pH 7.8, with 5 µM oxyhemoglobin, 1 mM calcium chloride, 20 µg/mL calmodulin, 0.1 mM NADPH, 50 M arginine, 12 µM tetrahydrobiopterin, and 170 µM DTT.

GENE INFORMATION

Gene Name NOS3 nitric oxide synthase 3 [Bos taurus (domestic cattle)]

Official Symbol NOS3

Synonyms

NOS3; nitric oxide synthase 3; nitric oxide synthase 3; EC-NOS; NOS type III; NOSIII; cNOS; constitutive NOS; eNOS; endothelial NOS; endothelial nitric oxide synthase; nitric oxide synthase 3 (endothelial cell); nitric oxide synthase, endothelial; EC 1.14.13.39

Gene ID 287024

mRNA Refseq NM_181037

Protein Refseq NP_851380

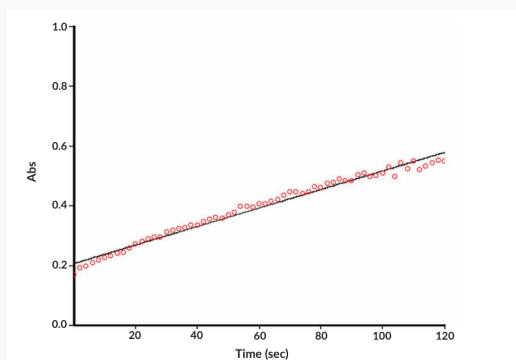
UniProt ID F1MY54

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Activity



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