

Recombinant bovine NOS3 Protein, His-tagged

Cat. No. NOS3-66B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant bovine NOS3 protein without tag was expressed in Sf9 cells.
Species	Bovine
Source	Insect Cells
Description	Nitric oxide synthase (NOS) is responsible for the biosynthesis of NO from L-arginine. Constitutively expressed NOS is found in brain (nNOS) and endothelial cells (eNOS), whereas macrophages can be induced by cytokines or endotoxin to express NOS (iNOS). eNOS undergoes several post-translational modifications, including myristolation and palmitoylation, which causes the enzyme to become membrane-associated.
Molecular Mass	135 kDa
Purity	cell lysate 100,000 x g supernatant
Unit Definition	One unit of enzyme produces 1 nanomole of nitric oxide per minute at 37 centigrade in 50 mM HEPES, pH 7.4, containing 5 µM oxyhemoglobin, 1 mM CaCl ₂ , 20 µg/mL calmodulin, 0.1 mM NADPH, 50 µM arginine, 12 µM tetrahydrobiopterin, and 170 µM DTT.
Stability	≥ 6 months
Storage	Store it at -80 centigrade

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Storage Buffer 50 mM HEPES, pH 7.4, containing 10% glycerol, 5 mM CHAPS, and 100 µM DTT

GENE INFORMATION

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

Official Symbol NOS3

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

Gene ID 287024

mRNA Refseq NM_181037

Protein Refseq NP_851380

UniProt ID P29473

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