

Inducible NOS, Mouse Recombinant

CATALOG NO:	P1667-10 10 µg P1667-50 50 µg
ALTERNATE NAMES:	Inducible Nitric Oxide Synthase; iNOS; NOS2
MOL. WT.	131.6 kDa with N-terminal His tag
SOURCE:	<i>E. coli</i>
PURITY:	> 80% by SDS - PAGE
FORM:	Liquid
FORMULATION:	40 mM Bis-Tris, pH 7.5, 1 mM L-Arginine, 3 mM DTT, 4 µM Tetrahydrobiopterin, and 10% glycerol
SPECIFIC ACTIVITY:	≥ 100 mU/mg. Measured by its ability to convert L-arginine to nitric oxide and L-citrulline by using BioVision's Nitric Oxide Synthase (NOS) Activity Assay Kit (Cat. No. K205).
UNIT DEFINITION:	One unit of NOS is defined as the amount of enzyme that generates 1 µmol of nitric oxide per min at 37 °C under the assay conditions.
STORAGE CONDITIONS:	Stable at ≤ -70 °C for up to one year from the date of receipt. Aliquot and store at -70 °C for longer term storage. Avoid repeated freeze-thaw cycles.
DESCRIPTION:	Inducible nitric oxide synthase (iNOS), also known as inflammatory nitric oxide synthase, is a calcium independent isoenzyme involved in synthesis of nitric oxide (NO). It is a soluble enzyme encoded by the gene mapped to mouse chromosome 11. iNOS is active in dimeric form and its activity is induced by cytokines and various other stimuli, including lipopolysaccharide. iNOS is expressed in various inflammatory conditions and enhances the synthesis of proinflammatory mediators such as IL-6 and IL-8.
AMINO ACID SEQUENCE:	aa 1-1144 (P29477)

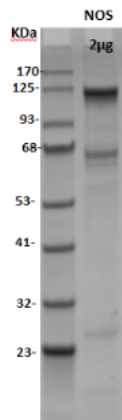


Figure A. SDS-PAGE of iNOS
Recombinant iNOS (2 µg) was loaded on SDS-PAGE (4-20%) under reducing conditions and visualized with Coomassie Blue stain.

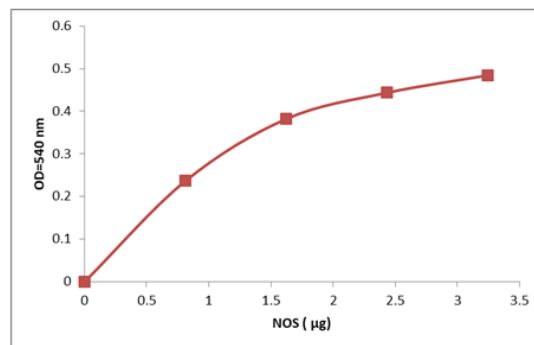


Figure B. iNOS Activity. Recombinant iNOS activity was measured by the ability of enzyme to yield Nitric Oxide at 37 °C using BioVision Cat. No. K205.

RELATED PRODUCTS:

- Nitric Oxide Synthase (NOS) Activity Assay Kit (Colorimetric) (Cat. No. K205)
- Nitric Oxide Synthase (NOS) Activity Assay Kit (Fluorometric) (Cat. No. K206)
- EZCell™ Intracellular Nitric Oxide Synthase (NOS) Detection Kit (Cat. No. K207)
- Nitric Oxide Synthase (NOS) Inhibitor Screening Kit (Fluorometric) (Cat. No. K208)
- NOS2 / iNOS (Human) ELISA Kit (Cat. No. E4648)
- NOS2 / iNOS (Mouse) ELISA Kit (Cat. No. E4691)

FOR RESEARCH USE ONLY! Not to be used on humans.