Also Known As: eNos KO
Mice homozygous for the nitric oxide synthase 3 endothelial cell knockout allele (Nos3<sup>−/−</sup> or eNOS<sup>−/−</sup>) may be useful for studying wound healing, hypertension and other cardiovascular defects, insulin resistance, hyperlipidemia and lung development.

Donating Investigator
Dr. Oliver Smithies, University of North Carolina at Chapel Hill
Mice homozygous for the Nos3<sup>tm1Unc</sup> targeted mutation are viable and fertile. They have elevated blood pressure that is about 20 mmHg higher than that seen in normal wildtype siblings. They also show a decreased heart rate. Female homozygotes are smaller in body weight than normal wildtype siblings. Hyperglycemic-euglycemic clamp studies demonstrate that homozygotes exhibit insulin resistance at the level of the liver and peripheral tissues.
**Genotyping Protocols**

**Standard PCR:** Nos3

Genotyping resources and troubleshooting

**Breeding Considerations**

*This strain is a good breeder.*

When maintaining a live colony, these mice are bred as homozygotes (by homozygous sibling matings).

**Additional Breeding and Husbandry Support**

**Mating System**
Homozygote x Homozygote

**Appearance**
black

**Related Genotype:** a/a

**Citation**

When using the eNos KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #002684 in your Materials and Methods section.

**Animal Health Reports**

**Facility Barrier Level Descriptions**

- AX4 (Standard)
### Pricing & Availability

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

**Domestic and International Pricing**

Pricing effective for USA, Canada and Mexico shipping destinations.

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Terms Of Use

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Phone: 207-288-6470
Email: TechTran@jax.org

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