

B6.129P2-*Ncam1*^{tm1Cgn}/J

Stock No: **002405** | N-CAM KO

 Congenic, Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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Donating Investigator

Klaus Rajewsky, Max Delbrück Centre for Molecular Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Ncam1^{tm1Cgn}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Ncam1

neural cell adhesion molecule 1

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research

Developmental Biology Research

Immunology, Inflammation and Autoimmunity Research

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

Mice homozygous for the *Ncam1*^{tm1Cgn} targeted mutation show a 10% reduction in overall brain weight and 36% reduction in olfactory bulb size. Motor end plates were 14% smaller in NCAM-deficient mice compared to controls, and the formation of junctional folds was delayed. They also show deficits in spatial learning and in the amount of protein-bound alpha-(2,8)-linked polysialic acid. Both homozygous and heterozygous mutant mice are reportedly more aggressive than wildtype controls.

Control Suggestions

Selected References

Genetics

Ncam1^{tm1Cgn}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

[Genotyping resources and troubleshooting](#)

Breeding Considerations

This strain is difficult to breed homozygously. The suggested breeding scheme is heterozygote x C57BL/6. The expected coat color from breeding is black.

[Additional Breeding and Husbandry Support](#)

Appearance

black

Related Genotype: *a/a*

Citation

When using the N-CAM KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002405 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

Pricing & Availability



Cryo
Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or Wildtype for Ncam1<tm1Cgn>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129P2-Ncam1<tm1Cgn>/J Frozen Embryo	\$2595.00
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Email: TechTran@jax.org

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