SM/J

Stock No: 000687

Inbred Strain

AVAILABLE

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview

Also Known As: small

SM/J mice carry a number of rare polymorphic alleles and are often matched to other strains for quantitative trait locus analysis. These mice are susceptible to diet-induced obesity and diet-induced atherosclerosis. SM/J mice exhibit a hyperresponsiveness to B cell mitogens. Small in size at birth and through weaning, SM/J mice attain a normal body weight as they age.

READ MORE +

GENETIC OVERVIEW

<table>
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<th>Genetic Background</th>
<th>Generation</th>
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VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research
Cardiovascular Research
Diabetes and Obesity Research
Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description

SM/J mice carry a number of rare polymorphic alleles and are often matched to LG/J (Stock No. 000675), A/J (Stock No. 000646) or NZB/BIN/J (Stock No. 000684) for quantitative trait locus analysis. These mice are susceptible to diet-induced obesity and diet-induced atherosclerosis. SM/J mice exhibit a hyperresponsiveness to B cell mitogens (Clark et al. 1981, Engel et al. 1981). A point mutation in Neu1 is responsible for a partial deficiency of lysosomal neuraminidase and may explain the altered immune response (Rottier et al. 1998). Small in size at birth and through weaning, SM/J mice attain a normal body weight as they age.

Development

Selected References

Genetics

Il3ra<sup>m1</sup>

Neu<sup>1d</sup>

Gpr84<sup>del</sup>

Ogg1<sup>m1</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

Phenotype Information

References

Technical Support
Genotyping Protocols
Genotyping resources and troubleshooting
Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

This strain is a challenging breeder.

Additional Breeding and Husbandry Support

Mating System
Sibling x Sibling

Appearance
white-bellied agouti
Related Genotype: A"/a

black
Related Genotype: a/a

Citation
When using the SM/J mouse strain in a publication, please include JAX stock #000687 in your Materials and Methods section.

Facility Barrier Level Descriptions
AX11 (Maximum)

Pricing & Availability

Live mice available in varying quantities. Ask Customer Service for details.

Domestic
International
Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

<table>
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<tr>
<th>AGE</th>
<th>SEX</th>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>$236.78</td>
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<tr>
<td></td>
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All

By Allele

By Gene

By Collection

All Related Strains

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