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.

GENETIC OVERVIEW

Genetic Background
Generation
F229
(2019-06-13 00:00:00)

RESEARCH APPLICATIONS

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

BASE PRICE

Starting at:

$236.78 Domestic price for female 4-week

Live mice available in varying quantities. Ask Customer Service for details.
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/BINJ (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.
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: \( A^w/a \)
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.

Animal Health Reports
Facility Barrier Level Descriptions

- AX11 (Maximum)

Pricing & Availability

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

Available

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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<p>| Live Mouse | | | |
|------------|--|--|
| AGE | SEX | PRICE |
| 4 weeks | Female | $236.78 |</p>
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**Terms Of Use**

**General Terms and Conditions**
Licensing Information

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

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