This C57BL/10 substrain was inbred at NIH until it was sent back to The Jackson Laboratory in 2000. These mice, carrying a spontaneous deletion of the \textit{Tlr4} gene, serve as a common genetic background for histocompatibility congenic and mutant strains.
GENETIC OVERVIEW

Genetic Background

Generation

F131+34pN1F13
(2020-01-20 00:00:00)

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

BASE PRICE

Starting at:

$278.00 Domestic price for female 4-week

Details

Important Note

This strain is homozygous for the defective lipopolysaccharide response, deletion allele Tlr4\textsuperscript{lp-s-del}.

Detailed Description

The breeder pair of C57BL/10ScN mice, obtained from NIH, that were the progenitors of all mice of this strain at The Jackson Laboratory were tested by PCR analysis for the spontaneous Ii12rb2 mutation described by Poltorak et al. (J. Immunol. 167:2106-2111, 2001) and found to carry only the wild type Ii12rb2 allele. C57BL/10ScN mice have a deletion of the Tlr4 gene that results in absence of both mRNA and protein and thus in defective response to LPS stimulation. Tlr4\textsuperscript{lp-s-del} differs from the Tlr4\textsuperscript{lp-s-n} mutation of C3H/HeJ mice, a point mutation that causes an amino acid substitution. The allele for normal LPS response, Tlr4\textsuperscript{lp-s-n}, occurs in most other C3H and C57BL/10 substrains and most other mouse strains.

Development

Selected References

Genetics

Tlr4\textsuperscript{lp-s-del}
Genotyping Protocols
Standard PCR: Tlr4
Separated PCR: Tlr4

Genotyping resources and troubleshooting

Dietary Information
New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

Mating System
Sibling x Sibling

Appearance
black
Related Genotype: a/a

Citation
When using the C57BL/10ScNJ mouse strain in a publication, please include JAX stock #003752 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
AX10 (Standard)

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

Live Mouse
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Email: TechTran@jax.org
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Related Strains

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