C3H/HeSnJ
Stock No: 000661
Inbred Strain

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

Overview

Also Known As: C3Sn, C3H Snell, C3H/HeDiSnJ

C3H mice are used as a general purpose strain in a wide variety of research areas including cancer, infectious disease, sensorineural, and cardiovascular biology research. This C3H substrain was rederived in the 1960’s and again in 1999, as a result, this line does not carry the exogenous mouse mammary tumor virus (MMTV). These mice are homozygous for Clcc1<sup>m1J</sup>, which causes increased sensitivity to endoplasmic reticulum stress in the cerebellum, and homozygous for the retinal degeneration allele <i>Pde6b<sup>rd1</sup></i>.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>F163+pF7</td>
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</tbody>
</table>

RESEARCH APPLICATIONS

Neurobiology Research
Sensorineural Research
Mouse/Human Gene Homologs
Research Tools

BASE PRICE

Starting at:

$236.78 Domestic price for female 4-week
Details

Important Note
This strain does not carry mouse mammary tumor virus (MMTV). See JAX® NOTES, May 2000, No. 480. This strain is also homozygous for the retinal degeneration allele \( Pde6b^{rd1} \). A sighted alternative is Stock No. 003648, C3Sn.BLiA-Pde6b\(^{rd}\)/DnJ.

Detailed Description
C3H mice are used as a general purpose strain in a wide variety of research areas including cancer, infectious disease, sensorineural, and cardiovascular biology research. The C3H/HeSnJ substrain served as the parental strain for the Snell (Sn) congenic strains. This substrain does not carry the exogenous mouse mammary tumor virus (MMTV) and, like the other C3H strains, is homozygous for the retinal degeneration allele \( (rd1) \), but lacks the \( nob5 \) allele of \( Gpr179 \) (Chang, 2015). Unlike other C3H inbred strains, this strain is homozygous for the \( Clcc1^{m1J} \) allele, which has a more mild phenotype on this background than on the C57BL/6J congenic background (see Stock# 007723). C3H/HeSnJ have pyknotic granule cells in the cerebellum by 2 months of age, and hypoplastic cerebellum with numerous vacuoles by 22 months of age (Jia et al, 2015).

Genetics

\( Clcc1^{m1J} \)

\( Pde6b^{rd1} \)

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype
Phenotype Information

References

Technical Support

Genotyping Protocols
Separated PCR: Clcc1
Probe: Clcc1 Probe
Genotyping resources and troubleshooting

Mating System
Sibling x Sibling
Appearance
agouti
Related Genotype: A/A
Citation
When using the C3H/HeSnJ mouse strain in a publication, please include JAX stock #000661 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

Pricing & Availability

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

Available

Domestic

Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Live Mouse</th>
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<td>SEX</td>
<td>Payment Terms and Conditions</td>
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Email: TechTran@jax.org
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