C3H/HeOuJ mice are used as a general purpose strain in a wide variety of research areas including cancer and sensorineural research. C3H/HeOuJ mice and all other C3H substrains at The Jackson Laboratory are homozygous for the retinal degeneration 1 mutation (Pde6b<sup>rd1</sup>), causing blindness by weaning age. There is also a high incidence of hepatomas in C3H mice. This strain does not carry mouse mammary tumor virus (MMTV), but virgin and breeding females may still develop some mammary tumors later in life.

Also Known As: C3H Outzen, C3Ou

C3H/HeOuJ mice are used as a general purpose strain in a wide variety of research areas including cancer and sensorineural research. C3H/HeOuJ mice and all other C3H substrains at The Jackson Laboratory are homozygous for the retinal degeneration 1 mutation (Pde6b<sup>rd1</sup>), causing blindness by weaning age. There is also a high incidence of hepatomas in C3H mice. This strain does not carry mouse mammary tumor virus (MMTV), but virgin and breeding females may still develop some mammary tumors later in life.
Cancer Research
Research Tools
Sensorineural Research
Mouse/Human Gene Homologs

BASE PRICE
Starting at:

$59.52 Domestic price for female 3-week

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\textsuperscript{rd1}. See article "Genetic Background Effects: Can Your Mice See?", JAX® NOTES Spring 2002, No. 485. A sighted alternative is Stock No. 003648, C3Sn.BlJ-Pde6b\textsuperscript{rd1}/DnJ.

Detailed Description
C3H/HeOuJ mice are used as a general purpose strain in a wide variety of research areas including cancer and sensorineural, research. C3H/HeOuJ mice and all other C3H substrains at The Jackson Laboratory are homozygous for the retinal degeneration 1 mutation (Pde6b\textsuperscript{rd1}), causing blindness by weaning age, but lack the nob5 allele of Gpr179 (Chang, 2015). There is also a high incidence of hepatomas in C3H mice (reportedly 72-91% in males at 14 months, 59% in virgin females, 30-38% in breeding females). Despite the lack of exogenous mouse mammary tumor virus (MMTV), virgin and breeding females may still develop some mammary tumors later in life.

Development

Selected References

Genetics

\textsuperscript{rd1}
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 an exceptional breeder.

Additional Breeding and Husbandry Support
Mating System
Sibling x Sibling

Appearance
agouti

Related Genotype: A/A

Citation
When using the C3H/HeOuJ mouse strain in a publication, please include JAX stock #000635 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

MP14 (Maximum)
Available Now

Sized to accommodate orders of up to 50 or more. Ask Customer Service for details.

Domestic

Pricing effective for USA, Canada and Mexico shipping destinations

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<th>AGE</th>
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Phone: 207-288-6470
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By Gene

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