LP/J

Stock No: 000676

Inbred Strain

AVAILABLE NOW

PLACE ORDER

Sized to accommodate orders of up to 10 or more with age range. Call Customer Service for details.

Also Known As: LP

LP/J mice display a high susceptibility to audiogenic seizures, and have a fairly high incidence of tumors that develop later in life. LP/J mice are also homozygous for the spontaneous mutation piebald in the endothelin receptor type B gene (EdnrB\textsuperscript{\textregistered}). The white areas of the coat are completely lacking in neural crest-derived melanocytes, and there is a reduction in the number of melanocytes in the choroid layer of the eye.

READ MORE +

**GENETIC OVERVIEW**

<table>
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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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VIEW GENETICS
RESEARCH APPLICATIONS
Neurobiology Research
Cancer Research
Sensorineural Research
Metabolism Research
Mouse/Human Gene Homologs
Research Tools
Dermatology Research
Developmental Biology Research

BASE PRICE
Starting at:

$178.00 Domestic price for female 3-week

VIEW ALL RESEARCH APPLICATIONS

Details

Important Note
This strain is homozygous for Cdh23<sup>ahl</sup>, the age related hearing loss 1 mutation, which on this background results in progressive hearing loss with onset after 10 months of age.

Detailed Description
LP/J mice display a high susceptibility to audiogenic seizures. This strain is also reported to have a fairly high incidence of tumors that develop later in life, including mammary tumors, lymphoma, lung and soft-tissue sarcomas. LP/J mice are also homozygous for the spontaneous mutation piebald in the endothelin receptor type B gene (Ednrb<sup>+</sup>). The piebald spontaneous mutation is the result of a mutation in the endothelin receptor type B gene, Ednrb. Mice show irregular white spotting, the amount of which is greatly influenced by minor modifying genes. They also have dark eyes. The white areas of the coat are completely lacking in neural crest-derived melanocytes, and there is a reduction in the number of melanocytes in the choroid layer of the eye. Kanes et al (1993) found that this inbred strain is much less responsive to haloperidol than are other inbred strains, such as DBA/2J.

Development

Selected References

Genetics

Disc<sup>1del</sup>

Cdh23<sup>ahl</sup>

Ahr<sup>d</sup>
Ednrb<sup>1</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<sup>®</sup> 5K52/5K67

**Breeding Considerations**

This strain is a challenging breeder.

Additional Breeding and Husbandry Support

**Mating System**

Sibling x Sibling

**Appearance**

white-bellied agouti, piebald
Related Genotype: A<sup>W</sup>/A<sup>W</sup> Ednrb<sup>5</sup>/Ednrb<sup>5</sup>

**Citation & Animal Health Reports**

When using the LP/J mouse strain in a publication, please include JAX stock #000676 in your Materials and Methods section.

Facility Barrier Level Descriptions

MP13 (Maximum)

**Pricing & Availability**

Sized to accommodate orders of up to 10 or more with age range. Call Customer Service for details.

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### Live Mouse Pricing

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