STOCK Inpp5d<sup>Im1Dmt/J</sup>

Stock No: 003534 | Ship-

Targeted Mutation

CRYO RECOVERY

REQUEST CRYRORECOVERY

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Also Known As: Ship-

These Inpp5d knock-out mice exhibit dramatic chronic hyperplasia of myeloid cells resulting in splenomegaly, lymphadenopathy and myeloid infiltration of vital organs. They are suitable for use in applications related to the study of signal transduction in lymphocytes.

Donating Investigator

Dr. Dan Dumont, Sunnybrook Health Center

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>Inpp5d&lt;sup&gt;Im1Dmt&lt;/sup&gt;</td>
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<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Inpp5d</td>
<td>inositol polyphosphate-5-phosphatase D</td>
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VIEW GENETICS

RESEARCH APPLICATIONS

- Cancer Research
- Hematological Research
- Immunology, Inflammation and Autoimmunity Research
- Internal/Organ Research
- Cell Biology Research

VIEW ALL RESEARCH APPLICATIONS
**Details**

**Detailed Description**

Inpp5d (commonly called SHIP) -deficient mice are viable and fertile. However, fertility rate is 10% lower in homozygotes and lifespan is shortened in comparison to controls. Inpp5d -deficient mice exhibit dramatic chronic hyperplasia of myeloid cells resulting in splenomegaly, lymphadenopathy and myeloid infiltration of vital organs. Histological and flow studies demonstrate a substantial increase in granulocyte-macrophage/monocyte populations in bone marrow, spleen and lymph nodes. Spleens and lymph nodes are severely enlarged compared to wildtype. The difference in spleen size is apparent as early as 4 weeks of age, and by 16 weeks of age, spleens from null mice are 10 fold greater than those of wildtype mice. Neutrophils and bone marrow-derived mast cells from these mice appear to be less susceptible to apoptotic stimuli.

**Selected References**

**Genetics**

**Inpp5d<sup>tm1Dmt</sup>**

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Genotype**

**Mammalian Phenotype Terms by Genotype**

**References**

**Technical Support**

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**Genotyping Protocols**
Standard PCR: Inpp5d<sup>tm1Dmt</sup>-Alternate 3
Genotyping resources and troubleshooting
Breeding Considerations
When maintaining a live colony, heterozygous mice may be bred together or to wildtype siblings. While homozygous mice are viable and fertile, they exhibit a shortened life span, eventually succumbing to lung infections. The expected coat color from breeding is agouti.

Additional Breeding and Husbandry Support

Appearance
white-bellied agouti
Related Genotype: A^w/?

black
Related Genotype: a/a

Citation
When using the Ship mouse strain in a publication, please cite the originating article(s) and include JAX stock #003534 in your Materials and Methods section.

Animal Health Reports
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Domestic | International
Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Please inquire</td>
<td>$2,595.00</td>
</tr>
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</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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General Terms and Conditions

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

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains