

STOCK *Inpp5d*^{tm1Dmt} /J

Stock No: 003534 | Ship-

 Targeted Mutation

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

PLACE ORDER

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transduction in lymphocytes.

Donating Investigator

Dr. Dan Dumont, Sunnybrook Health Center

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GENETIC OVERVIEW

Genetic Background

Generation

Inpp5d^{tm1Dmt}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Inpp5d

inositol polyphosphate-5-phosphatase D

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research

Hematological Research

Immunology, Inflammation and Autoimmunity Research

Internal/Organ Research

Cell Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

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.

Control Suggestions

Selected References

Genetics

Inpp5d^{tm1Dmt}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Standard PCR: [Generic LacZ](#)

Standard PCR: [Inpp5d-Alternate 3](#)

Standard PCR: [Generic Neo](#)

Probe: [Generic Neo](#)

[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

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

Pricing & Availability



Cryo
Recovery

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

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or Wildtype for $Inpp5d^{tm1Dmt}$	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

STOCK Inpp5d<tm1Dmt>/J

\$2595.00

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