



B 6 ; 1 2 9 S *dtmLeb* / J

Stock No: 002972 | Sod1 KO

Targeted Mutation



CRYO RECOVERY

P L A C E O R D E R

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

Overview

Also Known As: Sod1 KO

Homozygous *SOD1^{m1BCM}* knock-out mice are characterized by abnormal retinal and cochlear ganglions, and they have age-related defects in hearing, vasculature, and muscle. These mice may be useful in studying retinal dysfunction, autoimmunity, female reproductive development/function, glaucoma, hearing loss, Alzheimer's Disease, familial amyotrophic lateral sclerosis (ALS), and other age-related disorders.

Donating Investigator

Dr. Russell Lebovitz, SUMA Partners

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Sod1^{tm1Leb}

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Sod1

superoxide dismutase 1, soluble

VIEW GENETICS

RESEARCH APPLICATIONS

Sensorineural Research

Mouse/Human Gene Homologs

Metabolism Research

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

The *SOD1^{m1BCM}* knock-out allele disrupts exons 1 and 2 of the Cu,Zn-superoxide dismutase-1 gene (*Sod1*). No protein expression from the targeted locus is detected in brain tissues. Heterozygous mice are viable and fertile. While homozygous males reproduce normally, homozygous females are infertile. Homozygous mice have abnormalities of the retinal ganglion, cochlear ganglion, and female reproductive development/function. Homozygous mice also exhibit age-related deafness, accelerated vascular aging and age-related skeletal muscle defects. These mutant mice may be useful in studying retinal dysfunction, autoimmunity, glaucoma, hearing loss, Alzheimer's Disease, familial amyotrophic lateral sclerosis (ALS), and other age-related disorders.

Development

Control Suggestions

+ Selected References

- Genetics

+ *Sod1^{tm1Leb}*

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR: *Sod1^{tm1Leb}*

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice are bred together, or heterozygous females are bred to homozygous males. Female homozygous mice are infertile, though male homozygous mice reproduce normally. Average litter size is observed. Expected coat color from breeding is white bellied agouti or black.

[Additional Breeding and Husbandry Support](#)

Appearance

black

Related Genotype: *a/a*

Citation

When using the *Sod1* KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002972 in your Materials and Methods section.

[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.

Cryorecovery - Domestic Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or Wild-type for Sod1<tm1Leb>	\$2,854.50

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.

Related Products and Services

Frozen Mouse Embryo	B6;129S-Sod1<tm1Leb>/J Frozen Embryos	\$2595.00
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Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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Terms of Use

[General Terms and Conditions](#)

Q U E S T I O N S A B O U T T E R M S O F U S E

Licensing Information

Phone: 207-288-6470

Email: TechTran@jax.org

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