B6SJL-Tg(Prnp-Immt/SOD1)1Gmnf/J

Stock No: 025402 | mito-WT5OD1

Transgenic

CRYO RECOVERY

PLACE ORDER

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
Also Known As: mito-WTSOD1
mito-WTSOD1 transgenic mice express mitochondrial inner membrane-tethered, human wildtype SOD1 at high levels in brain, spinal cord, heart and skeletal muscle. These mito-WTSOD1 mice are a control strain for mito-G93ASOD1 mice (Stock No. 024503), and may be useful for studying the pathogenic role of SOD1 and mitochondria in familial amyotrophic lateral sclerosis (ALS or Lou Gehrig’s disease).

Donating Investigator
Giovanni Manfredi, Weill Medical College of Cornell University

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tg(Prnp-Immt/SOD1)1Gmnf</td>
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Allele Type
Transgenic (Inserted expressed sequence, Humanized sequence)

RESEARCH APPLICATIONS
Research Tools
Neurobiology Research
Cell Biology Research

BASE PRICE
Starting at:
$2,595.00 Domestic price Cryo Recovery

Details

Detailed Description
mito-WTSOD1 transgenic mice have the mouse prion protein promoter directing expression of wildtype human SOD1 with N-terminal fusion of the mouse mitofilin mitochondrial targeting signal, MMP cleavage site and transmembrane domain. This results in expression of SOD1 that is anchored to the outer side of the mitochondrial inner membrane (i.e., facing the intermembrane space) at
high levels in brain, spinal cord, heart and skeletal muscle. High expression is observed in both neurons and astrocytes. Low to undetectable levels of protein are reported in kidney, lung, spleen and liver. The mito-SOD1 protein in high-expressing tissues oligomerizes and acquires enzymatic activity. Hemizygous mito-WTSOD1 mice are viable and fertile with no reported neuromuscular abnormalities. The donating investigator reports that homozygotes were not obtained and may not be viable.

These mito-WTSOD1 mice are a control strain for mito-G93ASOD1 mice (Stock No. 024503). In addition, when mito-WTSOD1 mice are bred to Sod1-deficient mice (such as Stock No. 002972), the resulting mitoSOD1,Sod1−/− animals are protected from the motor axonopathy and mitochondrial abnormalities observed in Sod1−/− motor neurons.

Genotyping Protocols
High Resolution Melting: Tg(Prnp-Immt/SOD1)1Gmnf
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, hemizygous mice are bred to B6SJLF1/J mice (Stock No. 100012) every generation. Hemizygous mice are viable and fertile with no reported neuromuscular abnormalities. The donating investigator reports that homozygotes were not obtained and may not be viable.
Additional Breeding and Husbandry Support
Mating System
Hemizygote x B6SJLF1/J (100012) and reci

Citation
When using the mko-WTSD1 mouse strain in a publication, please cite the originating article(s) and include JAX stock #025402 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

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

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<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non carrier for Tg(Prnp-Lmmt/SOD1)1Gmnf/</td>
<td>$2,595.00</td>
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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 | $2,595.00 per straw or vial |

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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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Email: TechTran@jax.org

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All Related Strains
Leading the search for
TOMORROW'S CURES