B6;129X1-Sncatm1Rosi/J

Stock No: 003692 | -Syn

Targeted Mutation

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview

Also Known As: -Syn

Homozygous null mice suffer from a reduction in total striatal dopamine and exhibit an attenuated locomotor response when given amphetamine. Observed phenotype suggests that Sncatm1Rosi/J is an activity-dependent negative regulator of dopamine neurotransmission. These mice may be useful in studies relating to Parkinson's disease.

Donating Investigator

Dr. Arnon Rosenthal, Rinat Neuroscience Corporation

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## Genetic Background

**Generation**

N8p+F29  
(2019-03-18 00:00:00)

### Snca<sup>Im1Rosl</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Snca</td>
<td>synuclein, alpha</td>
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</tbody>
</table>

## Research Applications

Neurobiology Research

## Base Price

Starting at:

$278.00 Domestic price for female

[VIEW PRICE LIST]

## Details

### Detailed Description

Homozygous null mice are viable, fertile, normal in size and do not display any gross abnormalities. No gene product (mRNA or protein) is detected in brain tissue. A wild-type complement of dopamine neurons, fibers and synaptic terminals is present and the overall brain architecture appears to be intact. They suffer from a reduction in total striatal dopamine and exhibit an attenuated locomotor response when given amphetamine. Normal dopamine release is observed upon stimulation of the nigrostriatal terminal with a single electrical pulse. When multiple stimuli are applied however, null mice exhibit an accelerated recovery of dopamine release. A similar acceleration is seen in wildtype mice in the presence of increased extracellular calcium. The phenotype observed in homozygous Snca-null mice suggests that Snca is an activity-dependent negative regulator of dopamine neurotransmission.

### Development

### Control Suggestions

### Selected References

### Genetics

### Snca<sup>Im1Rosl</sup>
Genotyping Protocols
Standard PCR: Snca<sup>tm1Rosl</sup> alternate5
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
This strain arose on a B6;129X background. It is maintained on a B6;129X background. Coat color expected from breeding Black or Agouti

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using this strain in a publication, please cite the originating article(s) and include JAX stock #003692 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
AX10 (Standard)

Pricing & Availability
Live mice available in varying quantities. Ask Customer Service for details.

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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</thead>
<tbody>
<tr>
<td>Live Mouse</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Snca&lt;sup&gt;tm1Rosl&lt;/sup&gt;</td>
<td>$278.00</td>
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All

By Allele

By Gene

By Collection

All Related Strains