B6.Cg-Tac1 tm1bm/J

Stock No: 004103 | PPT-A KO

Available

PLACE ORDER

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

Overview

Also Known As: PPT-A KO

Mice that are homozygous null for Tac1 have significantly reduced nociceptive pain responses to moderate to intense stimuli, and neuropathic inflammation is absent. Mutant mice are resistant to kainate-induced seizures and neurotoxicity. These mice provide a useful tool for studying the contribution of tachykinin peptides to pain processing and inflammatory disease states.

Donating Investigator

Allan Basbaum, Univ. California, San Francisco

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GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N7×N6F8</td>
</tr>
</tbody>
</table>
### Tac1<sup>Im1Bbm</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>Tac1</td>
<td>tachykinin 1</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

- Immunology, Inflammation and Autoimmunity Research
- Neurobiology Research

**BASE PRICE**

Starting at:

$278.00 Domestic price for female

**Details**

#### Detailed Description

Mice that are homozygous null for the Tac1 gene are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Tac1 protein products (substance P or neurokinin A) are not immunodetectable. These mice have significantly reduced nociceptive pain responses to moderate to intense stimuli. Neurogenic inflammation is absent. Mutant mice are resistant to kainate-induced seizures and neurotoxicity. These mice provide a useful tool for studying the contribution of tachykinin peptides to pain processing and inflammatory disease states.

#### Development

#### Control Suggestions

#### Selected References

#### Genetics

**Tac1<sup>Im1Bbm</sup>**

#### Disease/Phenotype
Genotyping Protocols
Standard PCR: Tac1<sup>tm1Bbm</sup>
Genotyping resources and troubleshooting

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

Mating System
Homozygote x Homozygote

Citation
If you use the P6T-AKK mouse strain in a publication, please cite the originating article(s) and include JAX stock #004103 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
- AX11 (Maximum)

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

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Live Mouse</strong></td>
<td></td>
</tr>
<tr>
<td><strong>AGE</strong></td>
<td><strong>SEX</strong></td>
</tr>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
</tr>
<tr>
<td></td>
<td>Male</td>
</tr>
</tbody>
</table>

Related Products and Services
Frozen Mouse Embryo | $2,595.00 per straw or vial
Payment Terms and Conditions
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## Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains
Leading the search for
TOMORROW’S CURES

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