B 6. C 3 B iarc-n a<sup>g1</sup>/a<sub>L</sub> e t J

Stock No: 008622

Congenic, Spontaneous Mutation

Overview

Mice homozygous for this spontaneous mutation of the calcium channel, voltage-dependent, P/Q type, alpha 1A subunit gene have an ataxic gait, paroxysmal dyskinesia and absence seizures. Tottering 4J mice may be useful for studies of epilepsy and voltage-dependent calcium channels.
GENETIC OVERVIEW

Genetic Background | Generation

*Cacna1a*<sup>tg-4J</sup>

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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Spontaneous</td>
<td><em>Cacna1a</em></td>
<td>calcium channel, voltage-dependent, P/Q type, alpha 1A subunit</td>
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RESEARCH APPLICATIONS

Neurobiology Research
Cell Biology Research

BASE PRICE
Starting at: $2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

Homozygotes for the tottering 4 Jackson allele exhibit a phenotype similar to that of mice homozygous for the tottering allele. Mice have an ataxic gait, with high stepping, waggling movements and paroxysmal dyskinesia. EEG recordings reveal 5-7 Hz spike wave discharges accompanied by behavioral arrest lasting up to 1.8 sec and occurring an average of four times per hour. This seizure phenotype is less severe than in tottering mice. Unique among the tottering alleles, *tg-4J* causes altered activation and inactivation kinetics of the voltage-dependent calcium channel. This strain may be useful for studies of epilepsy and voltage-dependent calcium channels.

Development

Control Suggestions

Selected References
Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice are bred as homozygotes.

Additional Breeding and Husbandry Support

Citation
When using the B6.C3Blr-Cacna1a<tg-4J>/LetJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #008622 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

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

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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Cacna1a&lt;tg-4J&gt;</td>
<td>$2,854.50</td>
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