



B 6 . 1 B9a-c ^{tm1^{cw}} / J

Stock No: 004714 | BACE1 KO

Targeted Mutation



CRYORECOVERY

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: BACE1 KO

Primary cultures of cortical neurons isolated from homozygotes aged embryonic day 16.5 do not secrete amyloid beta peptides or beta C-terminal fragments. This mutant mouse strain may be useful in studies of Alzheimer's disease.

Donating Investigator

Philip C. Wong, Johns Hopkins University

R E A D M O R E +

GENETIC OVERVIEW

Genetic Background Generation

Bace1^{tm1Pcw}

Allele Type	Gene Symbol	Gene Name
Targeted (Null/Knockout)	<i>Bace1</i>	beta-site APP cleaving enzyme 1

V I E W G E N E T I C S

RESEARCH APPLICATIONS

Mouse/Human Gene Homologs
Neurobiology Research

V I E W A L L R E S E A R C H A P P L I C A T I O N S

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (protein) is detected by Western blot analysis of brain tissue. Primary cultures of cortical neurons isolated from homozygotes aged embryonic day 16.5 do not secrete amyloid beta peptides (A β 1-40/42 or A β 11-40/42) or beta C-terminal fragments (β CTFs). When transfected with a recombinant adenovirus expressing the mutant humanized Beta amyloid precursor protein (APP), hAPPSwe, cultured embryonic cortical neurons do not secrete detectable levels of A β 1-40/42 or A β 11-40/42 peptides. This mutant mouse strain may be useful in studies of Alzheimer's disease.

Development

Control Suggestions

Selected References

Genetics

[+ Bace1^{tm1Pcw}](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

C H A T O  F L I N E

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Standard PCR: [Bace1^{tm1Pcw}](#)

Standard PCR: [Bace1^{tm1Pcw}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

The strain is currently maintained by intercrossing homozygotes. Homozygotes of this strain are noticeably smaller than heterozygous or wildtype littermates.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the BACE1 KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004714 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.

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or Wild-type for Bace1<tm1Pcw>	\$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.

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Terms of Use

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Phone: 207-288-6470

Email: TechTran@jax.org

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