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Stock No: 016565 | p21^{CIP1/WAF1}

Congenic, Targeted Mutation



AVAILABLE

P L A C E O R D E R

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

Overview

Also Known As: p21^{CIP1/WAF1}

These cyclin-dependent kinase inhibitor 1A (*Cdkn1a* or p21^{CIP1/WAF1}) knock-out mice may be useful for studying cell cycle timing and arrest during cellular proliferation.

Donating Investigator

Michael O'Reilly, The University of Rochester

R E A D M O R E +

GENETIC OVERVIEW

Genetic Background Generation
N10+N1F7
(2019-10-04 00:00:00)

Cdkn1a^{tm1Led}

Allele Type	Gene Symbol	Gene Name
Targeted (Null/Knockout)	<i>Cdkn1a</i>	cyclin-dependent kinase inhibitor 1A (P21)

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

RESEARCH APPLICATIONS

Cancer Research
Cardiovascular Research
Cell Biology 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:

\$255.00 Domestic price for female

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

Details

Detailed Description

In this knockout strain, a neo cassette replaces exon 2 of the of the cyclin-dependent kinase inhibitor 1A (*Cdkn1a* or *p21*^{*CIP1/WAF1*}) gene. Homozygotes are viable, fertile, and normal in size. *P21*^{*CIP1/WAF1*} is expressed, in a p53-dependent manner, during embryogenesis and postnatal development primarily in dividing cells. Although, actively dividing cells in these mice do not arrest in G1 phase of the cell cycle in response to DNA damage, these mice do not develop tumors as mice deficient in p53 do. These mice may be useful for studying cell cycle timing and arrest during cellular proliferation.

Development

Control Suggestions

Selected References

Genetics

[+ Cdkn1a^{tm1Lcd}](#)

Disease/Phenotype

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

Technical Support

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR: [Cdkn1a^{tm1Lcd}](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the [n21^{CIP1/WAF1}](#) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016565 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [FGB29 \(Standard\)](#)

Pricing & Availability



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

Available

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse			
AGE	SEX	GENOTYPE	PRICE
Approx 4-8 weeks	Female	Homozygous for Cdkn1a ^{tm1Led}	\$255.00
	Male	Homozygous for Cdkn1a ^{tm1Led}	\$255.00

Related Products and Services		
Frozen Mouse Embryo	B6.129S6(Cg)-Cdkn1a^{tm1Led}/J Frozen Embryo	\$2595.00

Payment Terms and Conditions

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