

B6.129-*Ido1*^{tm1Alm}/J

Stock No: **005867** | IDO KO

 Congenic, Targeted Mutation

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

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immunology, as well as other immune response and physiological processes.

Donating Investigator

Andrew Mellor, Medical College of Georgia

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GENETIC OVERVIEW

Genetic Background

Generation

[N10+N1pN2F8](#)
(2020-04-29 00:00:00)

Ido1^{tm1Alm}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Ido1

Gene Name

indoleamine 2,3-dioxygenase 1

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$236.78 Domestic price for female 4-week

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

Details

Detailed Description

Homozygous mice are viable and fertile with normal immune system development and function. They exhibit no spontaneous autoimmune disorders. No gene product (mRNA or protein) from the targeted gene is detected in the epididymis. At embryonic day 10.5, endogenous protein is absent from all cells at the maternal-fetal interface when both parents are homozygous for the targeted gene. Allogeneic and syngeneic pregnancy outcomes are unaffected by this mutation. In contrast to wild-type, anti-proliferative treatments (CTLA4-Ig, IFNalpha, or CpG-ODN) do not suppress T cell expansion both *in vivo* and *in vitro*. In addition, homozygous dendritic cells isolated from lymph nodes draining (induced) tumor sites have no suppressor activity. These mice may be useful in studies of pregnancy and reproductive immunology (tryptophan degradation, T cell activation, clonal expansion) as well as autoimmune disease, tissue transplantation, fostering, acquired tolerance/T cell anergy, and immunosuppressive pathways.

Development

Control Suggestions

Selected References

Genetics

Ido1^{tm1Alm}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:[Ido1-Alternate 3](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, these mice are bred as heterozygotes or homozygotes.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the IDO KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005867 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.

Available

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Ido1 ^{tm1Alm}	\$236.78
	Male	Homozygous for Ido1 ^{tm1Alm}	\$236.78
5 weeks	Female	Homozygous for Ido1 ^{tm1Alm}	\$236.78
	Male	Homozygous for Ido1 ^{tm1Alm}	\$236.78

	SEX	Homozygous for Ido1 ^{tm1Alm}	
6 weeks			\$236.78
	Male	Homozygous for Ido1 ^{tm1Alm}	\$236.78
7 weeks	Female	Homozygous for Ido1 ^{tm1Alm}	\$236.78
	Male	Homozygous for Ido1 ^{tm1Alm}	\$236.78
8 weeks	Female	Homozygous for Ido1 ^{tm1Alm}	\$236.78
	Male	Homozygous for Ido1 ^{tm1Alm}	\$236.78
9 weeks	Female	Homozygous for Ido1 ^{tm1Alm}	\$236.78
	Male	Homozygous for Ido1 ^{tm1Alm}	\$236.78
10 weeks	Female	Homozygous for Ido1 ^{tm1Alm}	\$236.78
	Male	Homozygous for Ido1 ^{tm1Alm}	\$236.78
11 weeks	Female	Homozygous for Ido1 ^{tm1Alm}	\$236.78
	Male	Homozygous for Ido1 ^{tm1Alm}	\$236.78
12 weeks	Female	Homozygous for Ido1 ^{tm1Alm}	\$236.78
	Male	Homozygous for Ido1 ^{tm1Alm}	\$236.78

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129-Iso1 ^{tm1Alm} /J Frozen Embryos	\$2595.00
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[Terms Of Use](#)

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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