C57BL/6-Ins2<sup>Akita</sup>/J

Stock No: 003548 | Akita

Also Known As: Akita

The Akita strain is a monogenic model for phenotypes associated with type 1 diabetes. A spontaneous mutation in the insulin 2 gene leads to incorrect folding of the insulin protein producing toxicity in pancreatic β cells, reduced β cell mass and reduced insulin secretion. Heterozygous Ins<sup>2Akita</sup> mice develop insulin dependent diabetes, including hyperglycemia, hypoinsulinemia, polydipsia, and polyuria by 3-4 weeks. The phenotype is more severe in males than females. Obesity and insulinis do not accompany diabetes. Akita mice may be useful for testing islet transplantation and studying diabetic complications such as nephropathy, sympathetic autonomic neuropathy, and macrovascular disease.

Genetic overview

N25pN8
(25-OCT-17<sup>-</sup>)
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