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Research Models and Services
Metabolic – Mice

C57BL/6 Diet induced obesity (DIO) mice

MODELS	NOMENCLATURE	OBESE	BLOOD GLUCOSE	SERUM INSULIN
C57 DIO	C57BL/6NHsd	Yes	Elevated	Elevated
C57 DIO Control	C57BL/6NHsd	No	Normal	Normal

MODEL CHARACTERISTICS

The C57BL/6 diet-induced obesity (DIO) mouse model is widely used to study the effects of high-fat diets on obesity-related diseases and other metabolic health and disease research. The C57 mice are preconditioned with a high-fat diet (60% of kcal from fat) and/or aged to be research-ready models for customers.

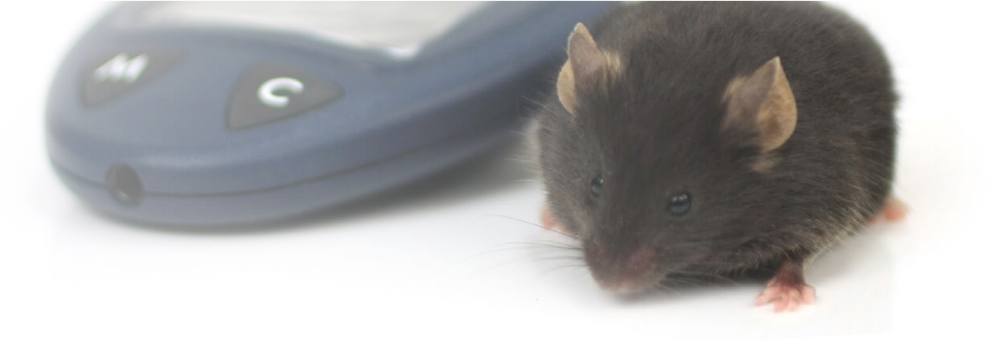
The strain originated from a nucleus colony from the National Institutes of Health, Bethesda, Maryland. The C57BL/6NHsd subline does not carry the Nnt (nicotinamide nucleotice transhydrogenase) gene deletion. This subline does carry a retinal degeneration 8 mutation (rd8).

RESEARCH USES

- Obesity
- Metabolic disease
- Inflammatory disease
- Cardiovascular disease
- Liver disease

FEATURES

- Obese phenotype
- Glucose intolerance
- Insulin intolerance
- Elevated blood glucose
- Dyslipidemia
- Liver steatosis



GROWTH CURVE