ENVIGO

Genetically engineered models (GEMS)

Oct2 knockout rat

Model	Oct2 knockout rat
Strain	HsdSage: SD-*Slc22a2*^{tm1Sage}
Location	U.S.
Availability	Cryopreserved

Characteristics/husbandry

+ A related model Oct1 (-/-) rats have increased exposure to specific substrates

Zygosity genotype

+ Heterozygous

Research use

+ Drug transport
+ Drug-drug interactions
+ Drug metabolism
+ Hepatotoxicity

Origin

The Oct2 KO rat model was originally created at SAGE Labs, Inc. in St. Louis, MO and distributed out of the Boyertown, PA facility. The line continues to be maintained through the original SAGE Labs animal inventory acquired by Envigo.

Description

This model contains a biallelic deletion within the Slc22a2 solute carrier family 22 (organic cation transporter), member 2, encoding for the basolateral hepatocyte uptake transporter Oct2.

Oct2 is involved in disposition and excretion through its role in xenobiotic uptake in the basolateral membrane of the liver. Polymorphisms within the gene also have clinical relevance - making this a useful model for studying drug-drug interations, toxicity and metabolism in the liver.

Contact us

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