

Technology Development Group

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Gpat4 Knockout Mouse

Tech ID: 20361 / UC Case 2009-186-0

SUMMARY

Researchers at UCLA have developed a mouse strain genetically modified to interrupt (knock out) the gene for glycerol-3-phosphate acyltransferase 4 (GPAT4; originally known as AGPAT6). This mutant mouse model is a valuable tool for investigation of the physiological function of GPAT4 in lipid metabolism, obesity, diabetes and related disorders.

Available Technologies

INNOVATION

Researchers at UCLA have developed a mouse strain genetically modified to interrupt (knock out) the gene for glycerol-3-phosphate acyltransferase 4 (GPAT4; originally known as AGPAT6). This mutant mouse model is a valuable tool for investigation of the physiological function of GPAT4 in lipid metabolism, obesity, diabetes and related disorders.

RELATED MATERIALS

Beigneux AP, Vergnes L, Qiao X, Quatela S, Davis R, Watkins SM, Coleman RA, Walzem RL, Philips M, Reue K, Young SG. (2006) Agpat6--a novel lipid biosynthetic gene required for triacylglycerol production in mammary epithelium. J Lipid Res. 47(4):734-744. [more] ▶ Vergnes L, Beigneux AP, Davis R, Watkins SM, Young SG, Reue K. (2006) Agpat6 deficiency causes subdermal lipodystrophy and resistance to obesity. J Lipid Res.;47(4):745-754. [more]

Nagle CA, Vergnes L, Dejong H, Wang S, Lewin TM, Reue K, Coleman RA. (2008) Identification of a novel sn-glycerol-3-phosphate acyltransferase isoform, GPAT4, as the enzyme deficient in Agpat6-/- mice. J Lipid Res. 49(4):823-831. [more]

Contact Our Team



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OTHER INFORMATION

KEYWORDS

mouse model, knockout, GPAT4, AGPAT6, glycerol-3-phosphate

acyltransferase

CATEGORIZED AS

Research Tools

Animal Models

RELATED CASES

2009-186-0

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