



This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Endocrine/metabolic disease				
Dyslipidemia; metabolic disease	Patatin-like phospholipase domain containing 2 (PNPLA2; ATGL)	In vitro and mouse studies have identified an inhibitor of ATGL that might help treat dyslipidemia and metabolic disorders. Lead optimization of lipase inhibitors yielded a compound that inhibited ATGL with an IC ₅₀ of about 700 nM. In lysates from ATGL-overexpressing Escherichia coli and mouse white adipose tissue, the ATGL inhibitor decreased triglyceride hydrolase activity compared with vehicle. In fasted mice, the inhibitor produced a time- and concentration-dependent decrease in the release of fatty acids and glycerol compared with vehicle. Next steps include optimizing the inhibitor for human ATGL and testing it in dietinduced models of metabolic disease. SciBX 6(46); doi:10.1038/scibx.2013.1321	Patent application filed; available for licensing	Mayer, N. et al. Nat. Chem. Biol.; published online Oct. 6, 2013; doi:10.1038/nchembio.1359 Contact: Rolf Breinbauer, Graz University of Technology, Graz, Austria e-mail: breinbauer@tugraz.at Contact: Robert Zimmermann, same affiliation as above e-mail: robert.zimmermann@uni-graz.at
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