

THE DISTILLERY

This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Neurology				
Alzheimer's disease (AD)	β-Site APP-cleaving enzyme 1 (BACE1); β-amyloid (Aβ)	In vitro and mouse studies identified a noncompetitive inhibitor of BACE1 that could help decrease A β levels to treat AD. In cultured neuroblastoma cells, the BACE1 inhibitor TAK-070 decreased A β secretion compared with vehicle control. In an amyloid- β (A4) precursor protein (APP) transgenic mouse model of AD, oral TAK- 070 decreased levels of soluble A β in the brain and improved behavioral deficits compared with vehicle control. Next steps could include testing the compound in additional preclinical models of AD. TAK-070 has been patented by Takeda Pharmaceutical Co. Ltd. CoMentis Inc. and Astellas Pharma Inc. have the BACE1 inhibitor CTS-21166 in Phase I testing to treat AD. TransTech Pharma Inc. has the inhibitor TTP854 in preclinical testing for the indication.	Compound patented; licensing status undisclosed	Fukumoto, H. <i>et al. J. Neurosci.</i> ; published online Aug. 18, 2010; doi:10.1523/JNEUROSCI.2884-10.2010 Contact: Hiroaki Fukumoto, Takeda Pharmaceutical Co. Ltd., Osaka, Japan e-mail: Fukumoto_Hiroaki@takeda.co.jp
		SciBX 3(33); doi:10.1038/scibx.2010.1016		

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