

Japan Tobacco Inc. Clinical development (as of May 1, 2008)

Code	Stage	Indication	Mechanism	Characteristics	Rights
JTT-705 (oral)	Phase2(JPN)	Dyslipidemia	CETP inhibitor	Decreases LDL and increases HDL by inhibition of CETP -CETP:Cholesteryl Ester Transfer Protein, facilitates transfer of cholesteryl ester from HDL to LDL -HDL:High density lipoprotein, Good Cholesterol -LDL:Low density lipoprotein, Bad Cholesterol	Roche (Switzerland) obtains the rights to develop and commercialize this compound worldwide, with the exception of Japan. *Development stage by Roche:Phase3
JTT-130 (oral)	Phase2(JPN) Phase2(Overseas)	Hyperlipidemia	MTP inhibitor	Treatment of hyperlipidemia by reducing absorption of cholesterol and triglyceride via inhibition of MTP -MTP:Microsomal Triglyceride Transfer Protein	
JTK-303 (oral)	Phase1(JPN)	HIV infection	Integrase inhibitor	Integrase inhibitor which works by blocking integrase, an enzyme that is involved in the replication of HIV -HIV:Human Immunodeficiency Virus	Gilead Sciences (U.S.) obtains the rights to develop and commercialize this compound worldwide, with the exception of Japan.
JTT-302 (oral)	Phase2(Overseas)	Dyslipidemia	CETP inhibitor	Decreases LDL and increases HDL by inhibition of CETP -CETP:Cholesteryl Ester Transfer Protein, facilitates transfer of cholesteryl ester from HDL to LDL -HDL:High density lipoprotein, Good Cholesterol -LDL:Low density lipoprotein, Bad Cholesterol	
JTT-305 (oral)	Phase2(JPN) Phase1(Overseas)	Osteoporosis	CaSR antagonist	Increases BMD and decreases new vertebral fractures by accelerating endogenous PTH secretion via antagonism of circulating Ca on CaSR in parathyroid cells -BMD: Bone Mineral Density -PTH: Parathyroid Hormone -CaSR: Calcium-Sensing Receptor	
JTT-552 (oral)	Phase2(JPN)	Hyperuricemia	URAT1 inhibitor	Decreases serum urate concentration by increasing urinary urate excretion via inhibition of URAT1. -URAT 1: Urate Transporter 1	
JTT-553 (oral)	Phase1(Overseas)	Obesity	DGAT1 inhibitor	Reduces fat absorption from the small intestine and inhibits fat synthesis in adipose tissue via inhibition of DGAT1 -DGAT1: Acyl CoA: diacylglycerol acyltransferase 1	
JTT-651 (oral)	Phase1(JPN)	Type 2 diabetes mellitus	GP inhibitor	Decreases blood glucose by suppression of glucose output from liver via inhibition of GP -GP:Glycogen Phosphorylase	
JTK-652 (oral)	Phase1(Overseas)	Hepatitis C	Entry inhibitor	Treatment of hepatitis C by inhibiting the infection process of HCV into hepatocytes -HCV:Hepatitis C Virus	
JTS-653 (oral)	Phase1(JPN)	Pain Overactive Bladder	TRPV1 antagonist	Improves pain and overactive bladder via antagonism of TRPV1 on sensory neurons - TRPV1:Transient Receptor Potential Vanilloid subtype 1	
JTT-654 (oral)	Phase1(Overseas)	Type 2 diabetes mellitus	HSD-1 inhibitor	Improves type 2 diabetes through reducing excessive glucocorticoid action by inhibiting HSD-1 - HSD1:11beta-hydroxysteroid dehydrogenase type1	

Changes from the previous announcement on February 7, 2008:

JTT-654 entered into clinical trial stage overseas.

JTT-705 advanced from phase1 to phase2 in Japan.

"Rights" column of JTT-705: Description of Roche's development status has been changed from "Roche has decided to move into phase3 to "Development stage by Roche:Phase3"