

Japan Tobacco Inc. Clinical development (as of July 31, 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. *Development stage by Gilead Sciences:Phase3
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-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	
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 May 1, 2008:

Development of JTT-553 was terminated.

Development of JTK-652 was terminated.

Updated "Rights" column for JTK-303: Gilead Sciences, licensee of JTK-303, started phase3 clinical trial