



Clinical Study Synopsis for Public Disclosure

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Name of company: Boehringer Ingelheim		Tabulated Study Report		
Name of finished product: APTIVUS®				
Name of active ingredient: Tipranavir		Page:	Number:	
Ref. to Documentation:	Volume:	Page:		Addendum No.:
Report date: 10 November 2006	Number: U06-2081	Study period (dates): 16 Nov 05 - 1 Feb 06		
Title of study:	A single-centre, open-label study in healthy adult volunteers to determine the effects of multiple-dose omeprazole (ANTRA® 40 mg qd) on the single-dose pharmacokinetics of tipranavir 500 mg coadministered with ritonavir 200 mg			
Investigator:	[REDACTED]			
Study center:	[REDACTED] [REDACTED] [REDACTED] Italy			
Publication (reference):				
Clinical phase:	I			
Objectives:	To determine the effects of multiple-dose omeprazole on the single-dose pharmacokinetics of tipranavir and ritonavir			
Methodology:	Open-label, single group TPV/RTV, pharmacokinetic study			
No. of subjects:	15 healthy adult			
planned:	enrolled: 20 entered: 15			
actual:	enrolled: 17 entered: 15 Treatment A: TPV + RTV + Omeprazole entered: 15 treated: 15 analysed (for primary endpoint):15			
Diagnosis and main criteria for inclusion:	Healthy male and female volunteers			
Test product:	TPV (APTIVUS®), 250 mg, Soft Elastic Capsules (SECs), Self-Emulsifying Drug Delivery System (SEDDS) formulation			
dose:	TPV 500 mg qd			
mode of admin.:	Oral			
batch no.:	PD-2652			
Duration of treatment:	2 days			

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Test product: RTV (NORVIR-SEC®) Soft Elastic Capsules (100mg)				
dose: RTV 200 mg qd				
mode of admin.: Oral				
batch no.: 28246VA				
Duration of treatment: 2 days				
Test product: Omeprazole capsule (ANTRA®) (20 mg)				
dose: 40 mg qd				
mode of admin.: Oral				
batch no.: GB5969				
Duration of treatment: 7 days				
Reference therapy: None				
Criteria for evaluation:				
Efficacy: There were no efficacy endpoint in this study.				
Pharmacokinetics: Primary endpoints:				
<ul style="list-style-type: none"> • Tipranavir AUC_{0-72h}, and Cmax 				
Secondary endpoints:				
<ul style="list-style-type: none"> • Ritonavir AUC_{0-72h}, and Cmax • Tipranavir and ritonavir AUC_{0-∞}, MRT, t_{1/2}, Tmax, CL/F, Vz/F 				
Safety: Subject safety was monitored by assessment of treatment related adverse events at each visit, in addition to laboratory assessment of safety parametry including hematology, chemistry, liver function tests (AST, ALT, alkaline phosphatase, total bilirubin), lipid parameters (triglycerides, cholesterol) at screening and at the final visit.				
Statistical methods: Analysis were based on within subject treatment comparisons. AUC _{0-72h} and Cmax were estimated from the drug plasma concentrations using the software program WinNonlin®. Cmax was the largest observed concentration and AUC was computed according to the linear trapezoidal rule.				
SUMMARY – CONCLUSIONS:				
Efficacy results: Not applicable				

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<p>Pharmacokinetics results: Tipranavir geometric mean AUC and Cmax were unchanged (increased less than 5%) in the presence of omeprazole. TPV Tmax and t_{1/2} were not affected either. Conversely, ritonavir geometric mean AUC and Cmax decreased approximately 20% in the presence of omeprazole without a change in Tmax or t_{1/2}.</p> <p>Safety results: AEs were primarily associated with TPV/r treatment (none were reported on OMP alone), with headache affecting 33% of subjects, with other events (nausea, diarrhoea, abdominal pain and fever) affecting fewer subjects. None were serious or severe. Most events were considered drug related.</p> <p>There were no changes in vital signs, and no clinically important findings in laboratory results.</p> <p>Conclusions: The bioavailability of single-dose tipranavir 500 mg coadministered with ritonavir 200 mg was not affected by omeprazole 40 mg administered once-daily for 7 days.</p>				