

Table 4

Toxicokinetic parameters^a for vinpocetine and apovincaminic acid in amniotic fluid following a daily gavage dose of vinpocetine in HSD rats from GD6 to GD18.

Parameter	Dose	
	5 mg/kg	20 mg/kg
Vinpocetine		
C _{max} _Observed (ng/mL)	21.4	45.0
T _{max} _Observed (h)	1.00	0.750
λ _z (h ⁻¹)	0.178	0.184
Half-life (h)	3.90	3.77
AUC (0-T) (ng/g·h)	97.3	310
AUC _∞ (ng/mL·h)	98.7	316
Cl _{1_F} (mL/h/kg)	50,600	63,300
V _{1_F} (mL/kg)	285,000	345,000
Apovincaminic acid		
C _{max} _Observed (ng/mL)	4.93	23.0
T _{max} _Observed (h)	24.0	24.0
λ _z (h ⁻¹)	NA	NA
Half-life (h)	NA	NA
AUC (0-T) (ng/mL·h)	99.1	440
AUC _∞ (ng/mL·h)	NA	NA
Cl _{1_F} (mL/h/kg)	NA	NA
V _{1_F} (mL/kg)	NA	NA

^a Based on non-compartmental analysis.