




# Correction to: Comparative Assessment of the New PDE7 Inhibitor – GRMS-55 and Lisofylline in Animal Models of Immune-Related Disorders: A PK/PD Modeling Approach

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## Correction to: Pharm Res

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There was a mistake in the unit of clearance ( $Cl$ ) in Table II. In addition, the descriptions of  $V_{I(ROL)}$  and  $V_{I(GRMS-55)}$  were imprecise and the reference number in the footnote below this table should be (9). The corrected Table appears below.

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**Table II** Values of Pharmacokinetic Parameters of (±)-LSF, GRMS-55, Rolipram, and PTX as a Metabolite in Female Lewis and Male Wistar Rats

Parameter	GRMS-55				(±)-LSF			
	Brief description	Estimate (CV%)	Parameter	Brief description	Estimate (CV%)	Parameter	Brief description	Estimate (CV%)
Female Lewis rats								
$V_{(rolipram)}$ (L kg <sup>-1</sup> )	Volume of distribution divided by fraction absorbed	1.02 (2.9)	$V_{1(GRMS-55)}$ (L kg <sup>-1</sup> )	Volume of central compartment	1.60 (15.4)	$V_{LSF}$ (L kg <sup>-1</sup> )	Volume of distribution of (±)-LSF	0.37 (12.5)
$k_{el(rolipram)}$ (min <sup>-1</sup> )	Absorption rate constant	0.228 (15.4)	$k_{el(GRMS-55)}$ (min <sup>-1</sup> )	Absorption rate constant	0.045 (17.6)	$V_{PTX} \cdot f_{fm}$ (L kg <sup>-1</sup> )	Volume of distribution divided by fraction metabolized	1.95 (21.2)
$Cl_{el(rolipram)}$ (L min <sup>-1</sup> kg <sup>-1</sup> )	Apparent total clearance following IP administration	0.023 (2.1)	$Cl_{el(GRMS-55)}$ (L min <sup>-1</sup> kg <sup>-1</sup> )	Total clearance	0.053 (10.8)	$k_{el(±LSF)}$ (min <sup>-1</sup> )	Absorption rate constant	0.032 (13.8)
			$Cl_{d(GRMS-55)}$ (L min <sup>-1</sup> kg <sup>-1</sup> )	Distribution clearance	0.080 (28.6)	$k_{el}$ (min <sup>-1</sup> )	Overall parent elimination rate constant	0.212 (27.1)
			$V_{2(GRMS-55)}$ (L kg <sup>-1</sup> )	Volume of peripheral compartment	2.14 (29.6)	$k_{em}$ (min <sup>-1</sup> )	Metabolite elimination rate constant	0.039 (12.1)
						$k_{conv}$ (min <sup>-1</sup> )	Conversion rate constant of PTX to (±)-LSF	0.054 (29.1)
Male Wistar rats								
$V_{(rolipram)}$ (L kg <sup>-1</sup> )	Volume of central compartment	0.58 (11.6)	$V_{(GRMS-55)}$ (L kg <sup>-1</sup> )	Volume of distribution	1.59 (9.2)	$V_{LSF}$ (L kg <sup>-1</sup> )	Volume of distribution of (±)-LSF	1.22 (3.4) <sup>a</sup>
$Cl_{el(rolipram)}$ (L min <sup>-1</sup> kg <sup>-1</sup> )	Total clearance	0.037 (2.6)	$Cl_{el(GRMS-55)}$ (L min <sup>-1</sup> kg <sup>-1</sup> )	Total clearance	0.051 (6.4)	$V_{PTXm}$ (L kg <sup>-1</sup> )	Volume of distribution of PTX	2.01 (9.5) <sup>a</sup>
$Cl_{d(rolipram)}$ (L min <sup>-1</sup> kg <sup>-1</sup> )	Distribution clearance	0.021 (16.0)				$V_{max}$ (mg min <sup>-1</sup> kg <sup>-1</sup> )	Maximal elimination rate constant of (±)-LSF	0.433 (56.9) <sup>a</sup>
$V_{2(rolipram)}$ (L kg <sup>-1</sup> )	Volume of peripheral compartment	0.28 (10.0)				$K_m$ (mg L <sup>-1</sup> )	Michaelis-Menten constant	6.02 (91.8) <sup>a</sup>
						$k_{m12}$ (min <sup>-1</sup> )	Distribution rate constant of PTX	0.203 (12.7) <sup>a</sup>
						$k_{m21}$ (min <sup>-1</sup> )	Redistribution rate constant of PTX	0.095 (12.9) <sup>a</sup>
						$k_{em}$ (min <sup>-1</sup> )	Elimination rate constant of PTX	0.116 (9.8) <sup>a</sup>

<sup>a</sup> data already published (9)