S1 Table. Parameter estimates of the model with biological prior

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| **Parameters** | **Estimates (RSE%) [Shrinkage%]** |
| Typical value of clearance | 6.94 (18%) |
| Typical value of central volume | 88 (53%) |
| Typical value of intercompartmental clearance ( | 13.7 (14%) |
| Typical value of peripheral volume () | 344 (14%) |
| Absorption rate constant () | 0.5 fixed |
| Exponent for body weight on clearance () | 0.75 fixed |
| Exponent for body weight on central volume () | 1 fixed |
| Exponent for body weight on clearance () | 0.75 fixed |
| Exponent for body weight on central volume () | 1 fixed |
| Between subject variability (%CV)  CL  Vc  Q  Vp  Correlation (CL, Vc)  Correlation (CL, Q)  Correlation (CL, Vp)  Correlation (Vc, Q)  Correlation (Vc, Vp)  Correlation (Q, Vp) | 54% (25%) [10%]  237.1% (36%) [18%]  40.8% (44%) [22%]  38.9% (43%) [18%]  -30%  70%  86.3%  46.7%  21.5%  96.4% |
| Residual error  in log domain | 0.198 [41.8%] |

– standard deviation of the additive component of the residual error