SUPPORTING INFORMATION

In Silico, Experimental, Mechanistic Model for Extended-Release Felodipine Disposition Exhibiting Complex Absorption and a Highly Variable Food Interaction

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Figure S1. Plasma concentration-time profile of an analog parameterized to Table 1’s default values.

Figure S2. Plasma concentration-time profile of the analog from Fig. S1 with DtoGDelay = 5 (default = 1) and DtoGProb = 0.4 (default = 0.8).
Figure S3. Plasma concentration-time profile of the analog from Fig. S1 with $DtoGFract$ set to 0.8 (default = 0.1).

Figure S4. Plasma concentration-time profile of the analog from Fig. S1 with $DiffGRatio = 0.5$ (default = 1) and $GAtoPFract = 0.6$ (default = 0.1).
**Figure S5.** Plasma concentration-time profile of the analog from Fig. S1 with $\text{DiffGRatio} = 0.8$ (default = 1), $G\text{toPFract} = 0.6$ (default = 0.1), and $G\text{BtoPFract} = 0.7$ (default = 0.1).

**Figure S6.** Plasma concentration-time profile of the analog from Fig. S1 with $G\text{toCDelay} = 5$, $G\text{toCFract} = 0.6$, $G\text{toCProb} = 0.7$, $G\text{CtoPDelay} = 15$, $G\text{CtoPFract} = 0.2$, and $G\text{CtoPProb} = 0.2$, which specify drug movement to and from GI/tissue space C.
**Figure S7.** Plasma concentration-time profile of the analog from Fig. S1 with $PtoEFract$ set to 0.6 (default = 0.1).

**Figure S8.** Plasma concentration-time profile of the analog from Fig. S1 with $PtoEDelay = 10$ (default = 0) and $PtoEFract = 0.6$ (default = 0.1).
Figure S9. Plasma concentration-time profile of the analog from Fig. S1 with $PtoEProb$ set to 0.2 (default = 0.8).

Figure S10. Plasma concentration-time profile of the analog from Fig. S1 with $InitDose$ increased to 50000 (default = 10000). No change in plasma profile is expected, which is measured in dose fraction.