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| **Supplementary file 2.** **Parameter values (Eq. 12).** |
| **Parameter** | **Value** |  | **Parameter** | **Value** |
| $$γ\_{Rho}^{DIA}$$ | 5.0526 |  | $$k\_{a}^{DIA}$$ | 2 |
| $$γ\_{Rho}^{ROCK}$$ | 22.7795 |  | $$k\_{a}^{ROCK}$$ | 2 |
| $$v\_{a}^{DIA}$$ | 19.2456 1/s |  | $$v\_{a}^{PAK}$$ | 0.0186 1/s |
| $$v\_{i}^{DIA}$$ | 10.5262 1/s |  | $$k\_{a}^{PAK}$$ | 0.288 |
| $$k\_{i}^{DIA}$$ | 0.0158 |  | $$v\_{i}^{PAK}$$ | 0.089 1/s |
| $$v\_{a}^{ROCK}$$ | 0.2470 1/s |  | $$k\_{i}^{PAK}$$ | 0.16 |
| $$v\_{i}^{ROCK}$$ | 9.5818 1/s |  | $$γ\_{DIA}^{Rho}$$ | 100 |
| $$k\_{i}^{ROCK}$$ | 0.0395 |  | $$k\_{DIA}^{Rho}$$ | 3 |
| $$v\_{GEF}^{Rho}$$ | 0.4902 1/s |  | $$γ\_{DIA}^{Rac}$$ | 7.8 |
| $$k\_{GEF}^{Rho}$$ | 0.3591 |  | $$k\_{DIA}^{Rac}$$ | 0.055 |
| $$v\_{GAP}^{Rho}$$ | 0.7707 1/s |  | $$γ\_{ROCK}^{Rac}$$ | 10 |
| $$k\_{GAP}^{Rho}$$ | 0.0218 |  | $$k\_{ROCK}^{Rac}$$ | 0.05 |
| $$v\_{GEF}^{Rac}$$ | 0.1118 1/s |  | $$k\_{Rho}^{DIA}$$ | 0.04 |
| $$k\_{GEF}^{Rac}$$ | 0.0275 |  | $$k\_{Rho}^{ROCK}$$ | 1.3 |
| $$v\_{GAP}^{Rac}$$ | 0.5495 1/s |  | $$γ\_{PAK}^{Rho}$$ | 0.025 |
| $$k\_{GAP}^{Rac}$$ | 0.0109 |  | $$k\_{PAK}^{Rho}$$ | 0.012 |
| $$γ\_{Rac}^{PAK}$$ | 6.7 |  | $$k\_{Rac}^{PAK}$$ | 0.65 |
| $$γ\_{PAK}^{Rac}$$ | 1 |  | $$k\_{PAK}^{Rac}$$ | 0.1 |
| $$d\_{Rac}$$ | 0.0005 1/s |  | $$d\_{Rho}$$ | 0.0005 1/s |
| $$d\_{RacD}$$ | 0.0005 1/s |  | $$d\_{RhoD}$$ | 0.0005 1/s |
| $$d\_{h}$$ | 1.1 |  | $$d\_{l}$$ | 0.8 |
| $$r\_{h}$$ | 1.85 |  | $$r\_{l}$$ | 0.5 |
| $$X\_{l}$$ | 0.8 |  | $$p$$ | 1 |
| $$\left[ATP\right]/K\_{d}^{ATP}$$ | 112 |  | $$K\_{I}^{ROCK}$$ | 220 nM |