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Script file 1: Competition between Two Different P450 Enzymes for the Reductase
- This is the script file that was used with the Dynafit program to model the
experimental data in Figures 5 and 6. The mathematical model assumes that
CYP2E1 and CYP1A2 (or CYP2B4 and CYP2E1) exist as functional monomers that
compete for NADPH-cytochrome P450 reductase.
; Two P450s
; Interaction fit program
; Reversible reductase binding with 2 different P450s where the P450 do not
interact with each other
[task]
     data = velocities
     task = fit
     model = michaelis menten
[mechanism]
       A + R <===> A.R : Kar
                                    dissoc.
       A.R --> P + A.R : kj
       B + R <===> B.R : Kbr
                                  dissoc.
       B.R --> P + B.R : kp
[constants]
     Kar = 0.01
     Kbr = 0.0015
     kj = 31
       kp = 47.7
[concentrations]
[responses]
     P = 7.5
[progress]
     rapid equilibrium
[velocities]
     directory ./examples/P450/data/4a low
     extension txt
     variable R
      file mix | concentration A = 0.05, B = 0.05
[output]
     directory ./examples/P450/output/substrate/models
[end]
```