SUPPORTING INFORMATION

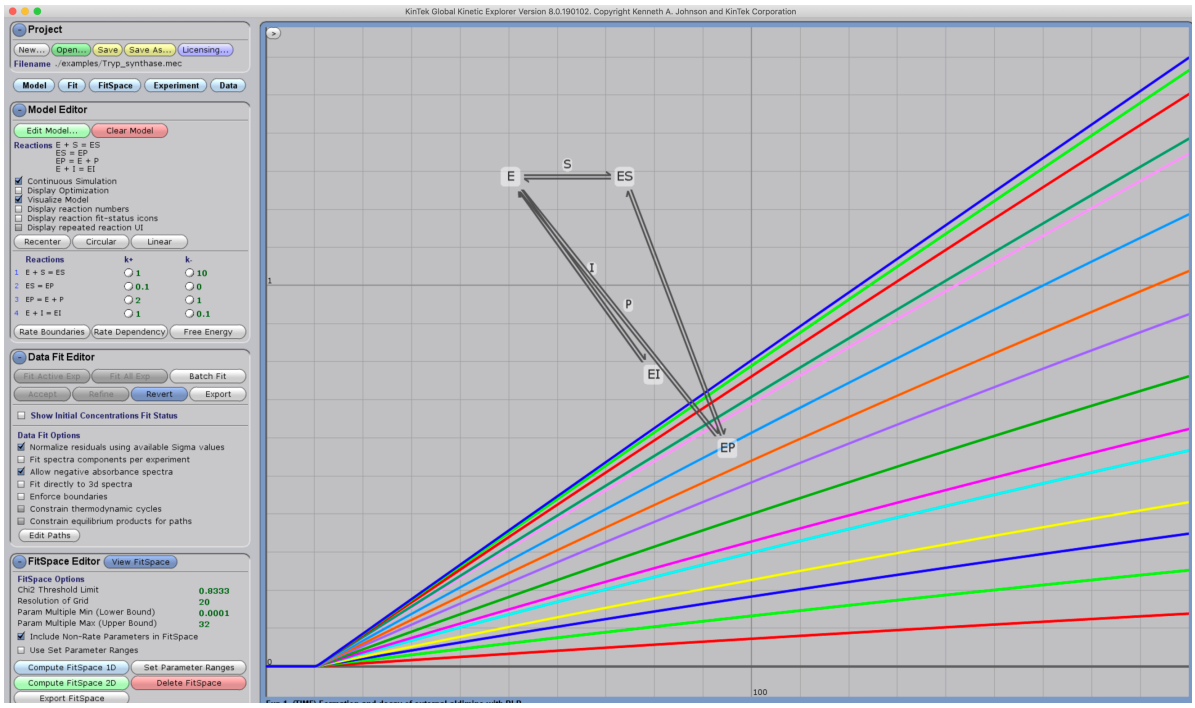
Kinetic Modeling of Steady-State Situations in Cytochrome P450 Enzyme Reactions

F. Peter Guengerich

TABLE OF CONTENTS

Fig. S1

A


KinTek Global Kinetic Explorer Version 8.0.190102. Copyright Kenneth A. Johnson and KinTek Corporation
Project
Model Editor
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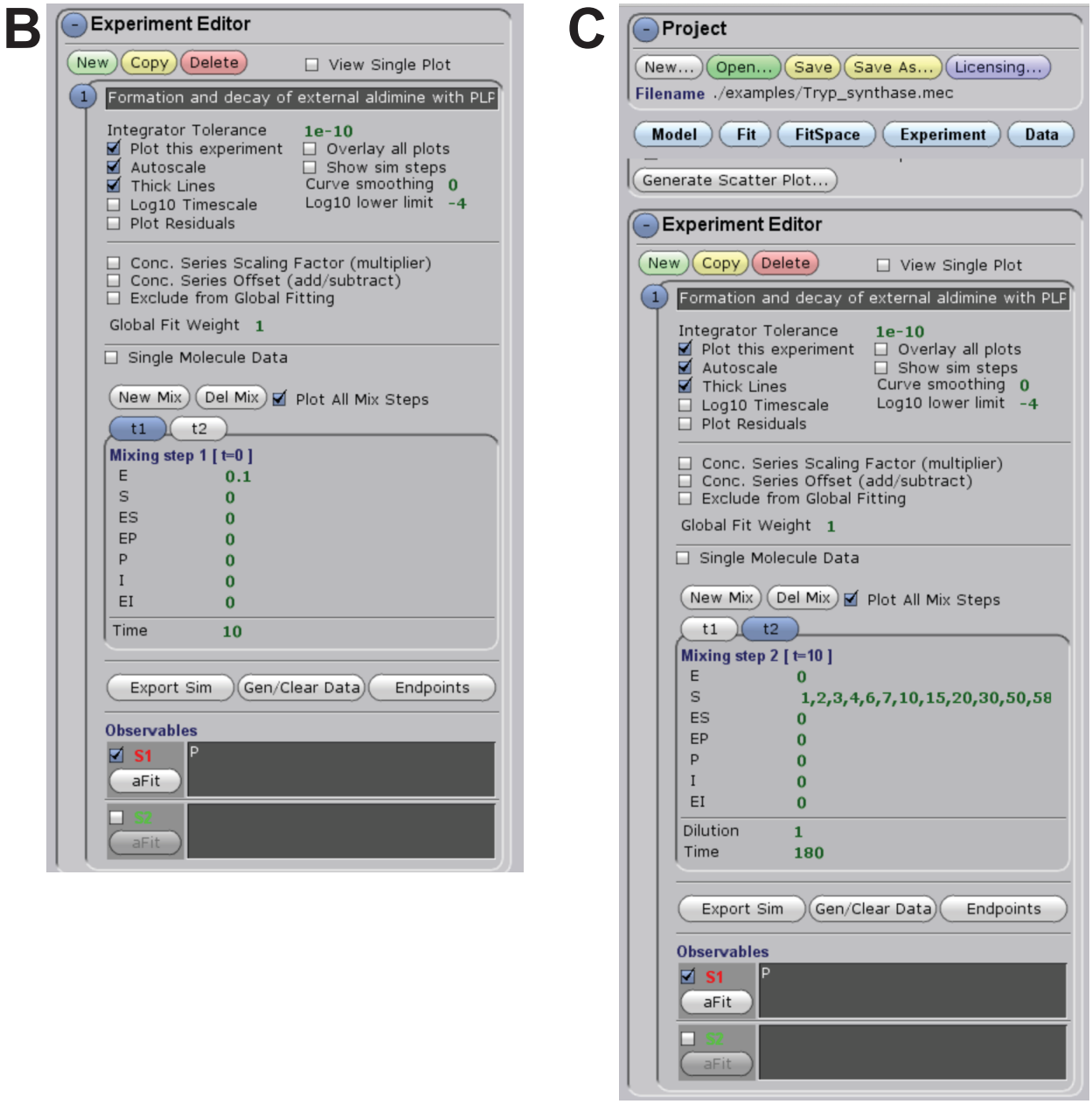

Fig. S1. Screenshot of KinTek Explorer® setup for the modeling in Fig. 1A. The three parts (A, B, C) show poses in the screen to indicate the basic setup.

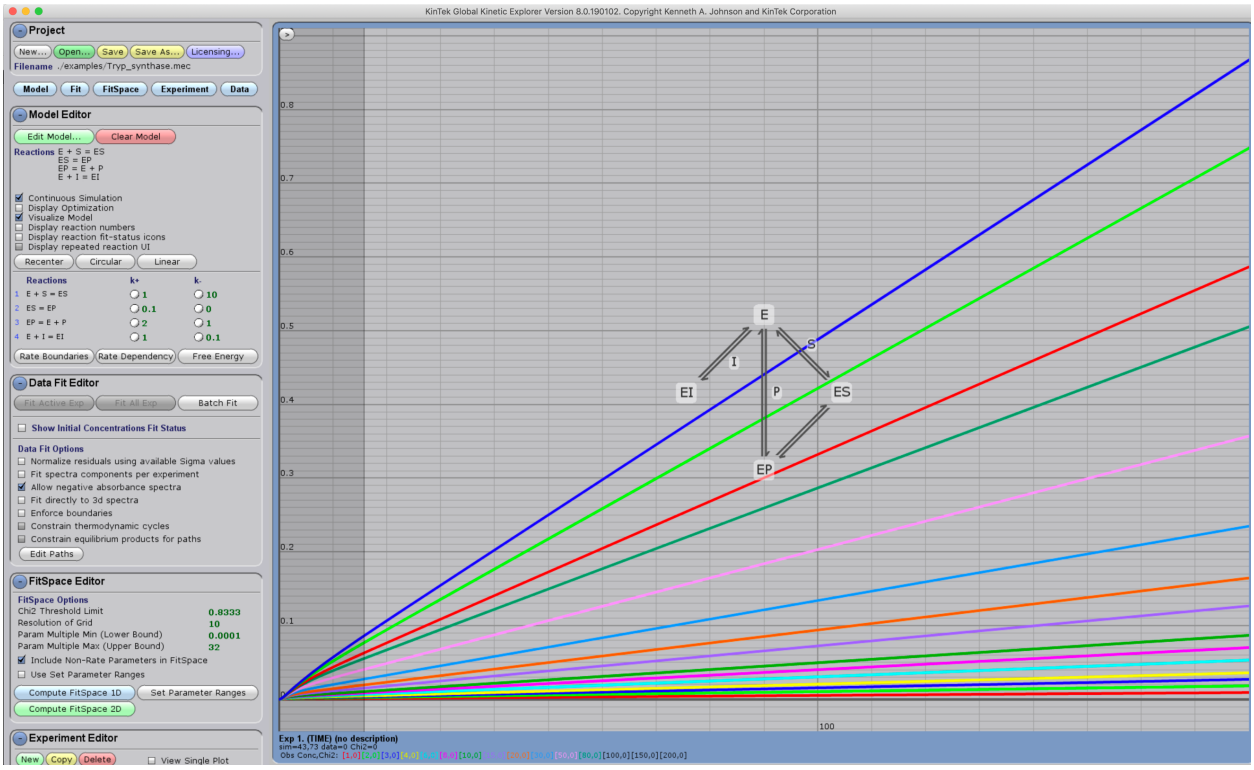

Fig. S2. Screenshot of KinTek Explorer® model for experiment of Fig. 1B. See parameters under Model Editor. Units are in μM and seconds (s^{-1} for first order reactions and μM^{-1} s^{-1} for second order reactions). A "=" symbol indicates a reversible reaction, and a back reaction rate constant of zero is used to make a reaction irreversible.

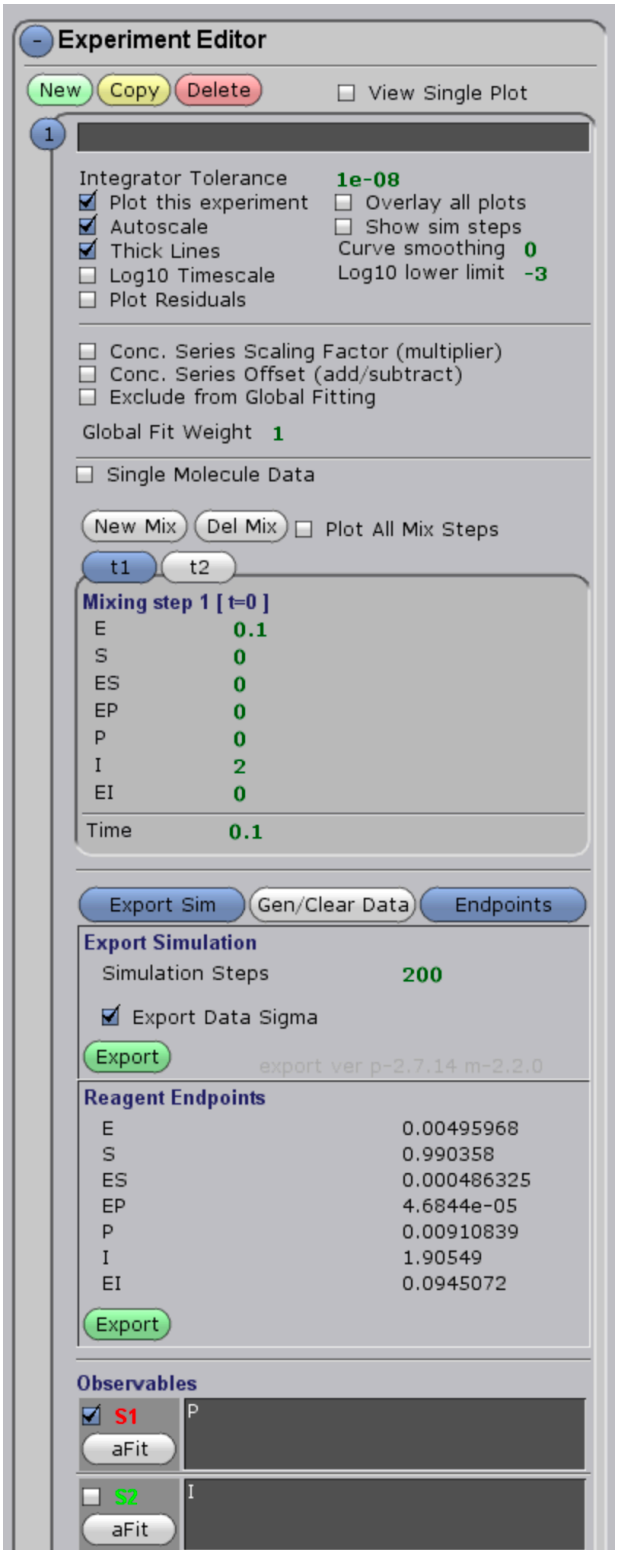

Fig. S3. Step t_1 for the reaction model (Fig. 1B) shown in Fig. S1.

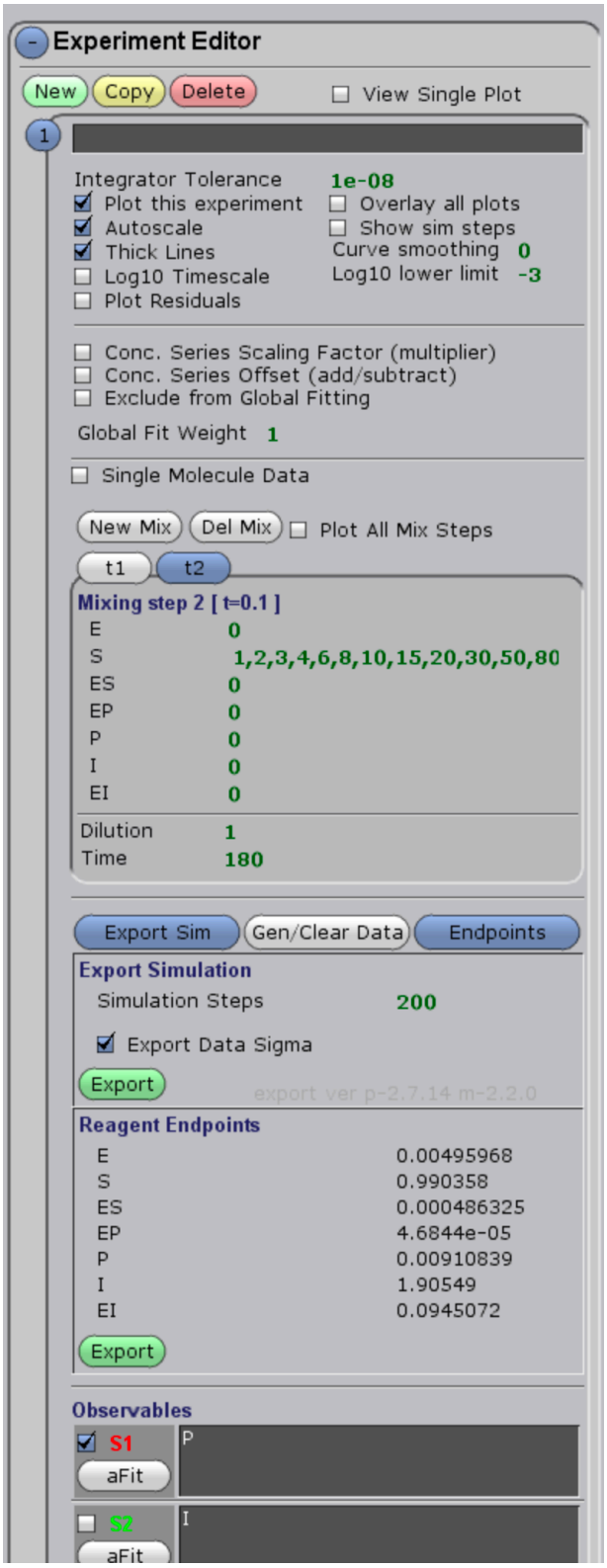

Fig. S4. Step t_2 for the reaction mode (Fig. 1B) shown in Fig. S1.

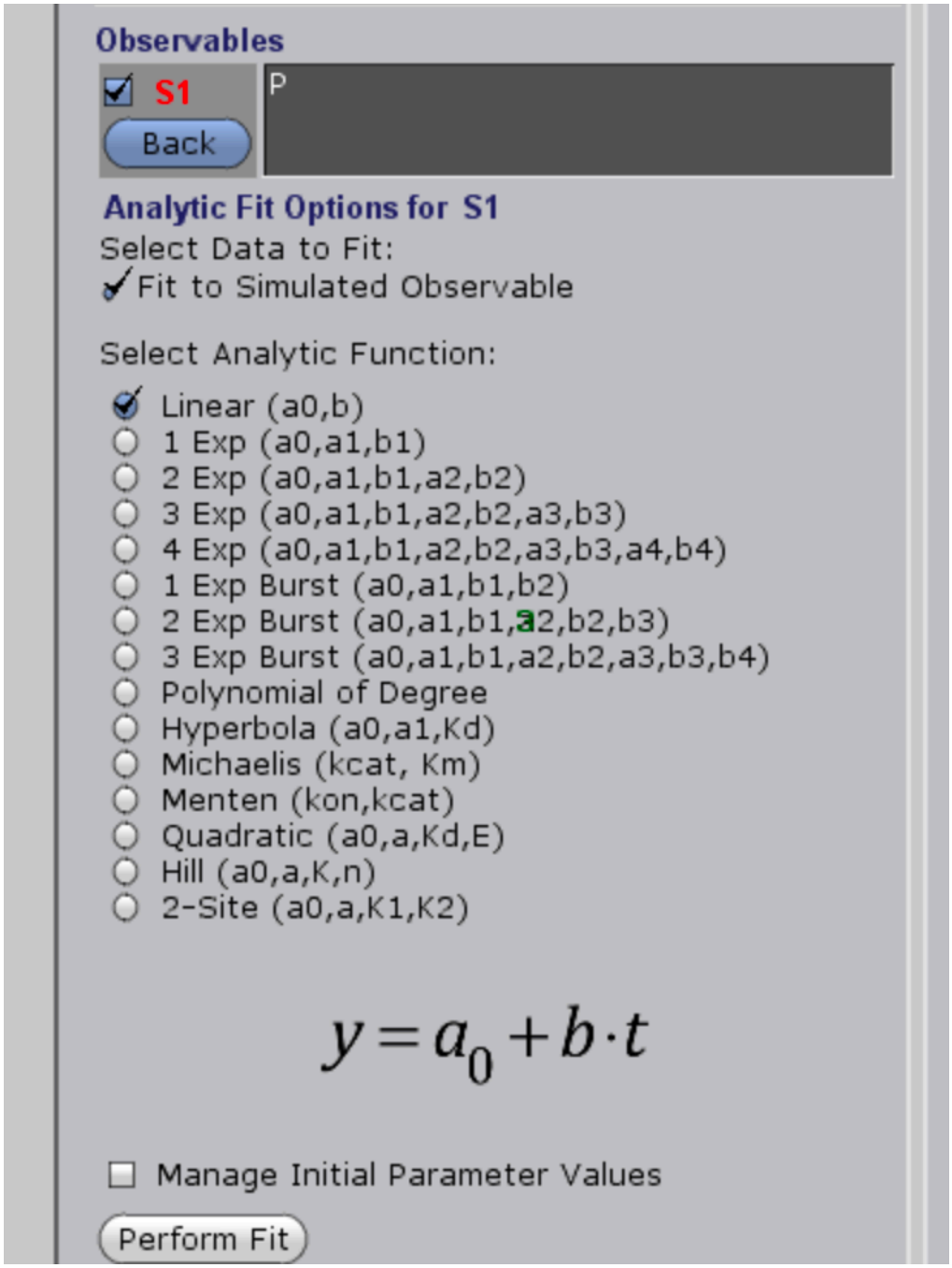

Fig. S5. Observables (Analytic Fit option) for analyzing the reaction model (Fig. 1B) in Fig. S1.

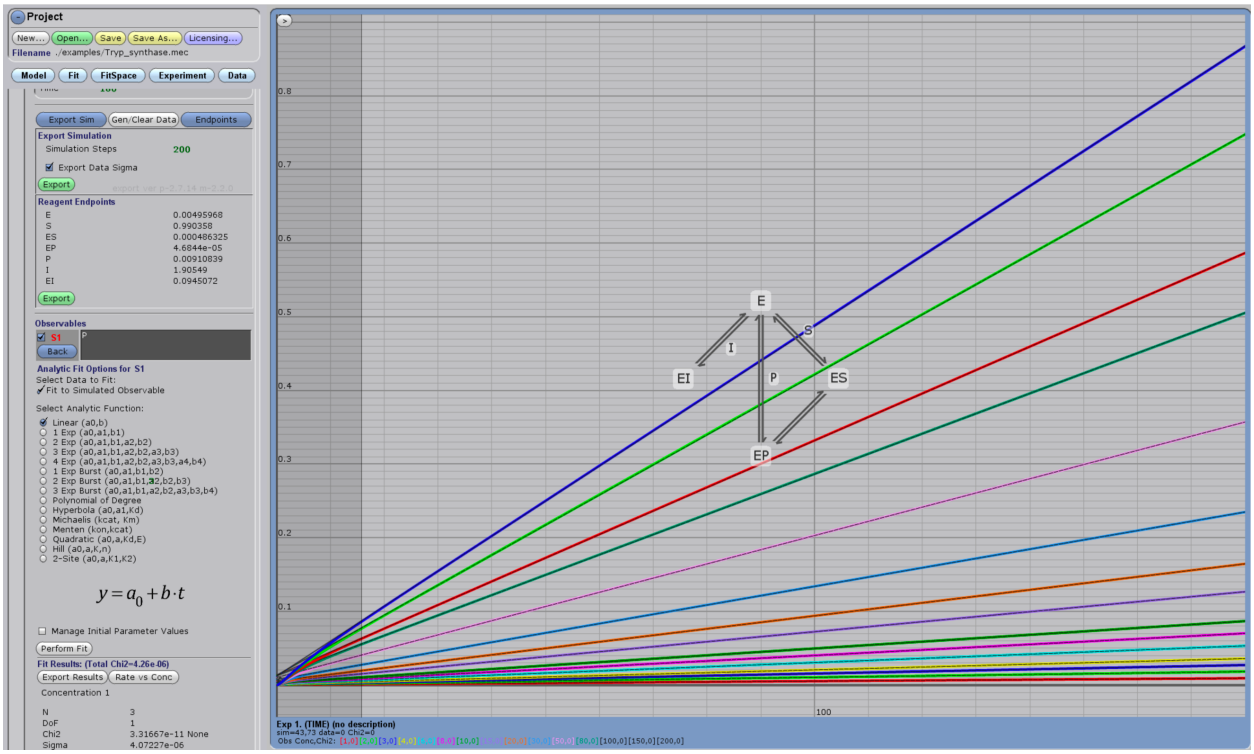

Fig. S6. Linear fitting of plots in Fig. S1.

Fig. S7

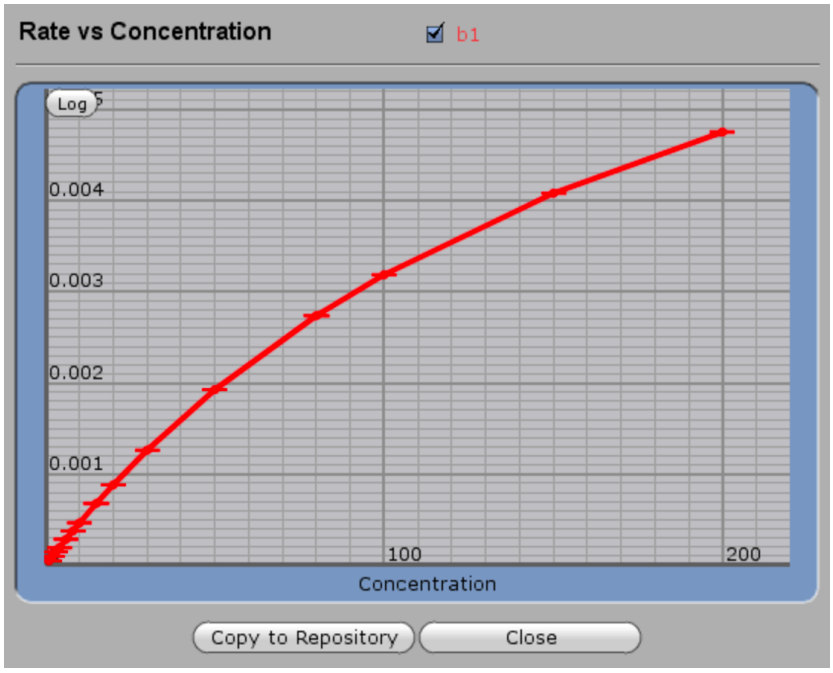

Fig. S7. Plot of <Rate *vs*. Conc> from rates obtained in Fig. S5 (Hyperbola). Alternatively <Michaelis> could have been selected to obtain the same result.

Fig. S8

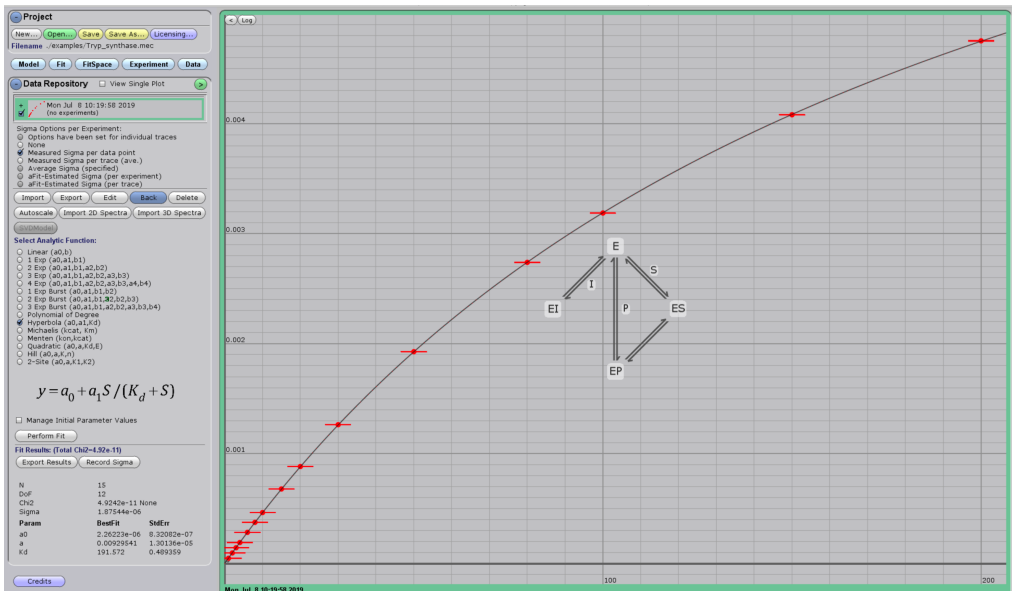

Fig. S8. Selected fit from Fig. S6 (following <Copy to Repository> in the step in Fig. S6).