

Parameters: Nonlinear Regression (Curve Fit)

- Equation
- Comparison
- Constraints
- Initial Values
- Weighting
- Output
- Range

Choose an Equation

- Classic equations
- More equations

- Two phase exponential association
- Exponential growth
- Power series:  $Y=A \cdot X^B + C \cdot X^D$
- Polynomial: First Order (straight line)**
- Polynomial: Second Order ( $Y=A + B \cdot X + C \cdot X^2$ )
- Polynomial: Third Order ( $Y=A + B \cdot X + C \cdot X^2 + D \cdot X^3$ )
- Polynomial: Fourth Order ( $Y=A + B \cdot X + C \cdot X^2 + D \cdot X^3 + E \cdot X^4$ )

View Equation...

Delete

Move Up

Move Down

Also calculate:  Show the 95% confidence band of the best-fit curve

- Unknown from standard curve
- Runs test
- Residuals
- Dose-ratios for Schild plot
- $K_i$  from  $IC_{50}$   $K_d =$   [ligand] =

Fit ?  Fit a curve with nonlinear regression

Don't fit  
(Plot the curve defined by the initial values.)

transformed data (i.e. log

	A	B	
	HIV (no inhibitor		
1	4.95864	5.	
2	5.013298	5.	
3	5.132853	5.	
4	5.556828	5.	
5	5.940171	5.	
6	6.969791	7.	
7	8.051723	7.	
8	8.457018	8.	
9	9.371098	9.	
10	10.23193	10	
11	10.80852	10	
12	11.75791	11	
13	12.12789	11	
14	12.84497	12	
15	13.61139	13	
16	13.76934	13	
17	14.4758	14	
18	15.26954	15	
19	16.39568	16	
20	16.74476	16	

transformed data (i.e. log

HIV (no inhibitor



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