



Dose Response Comparison Example

Equation:

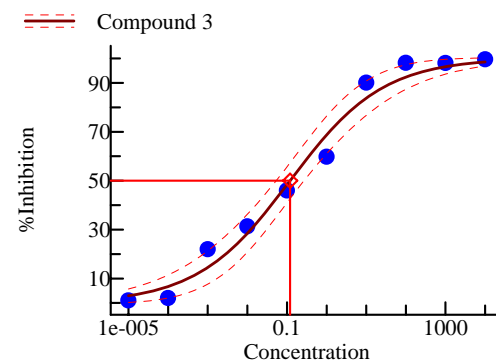
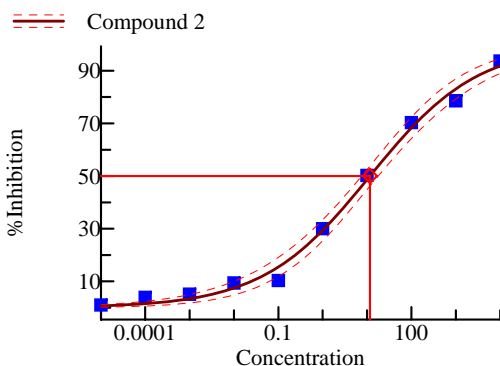
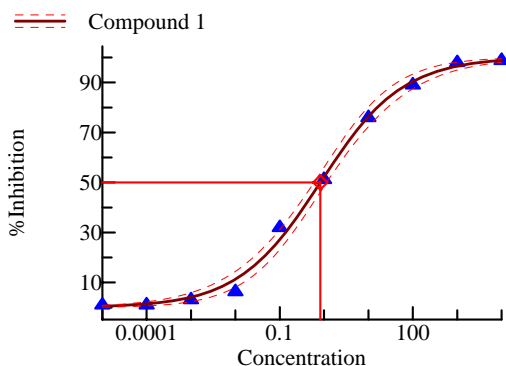
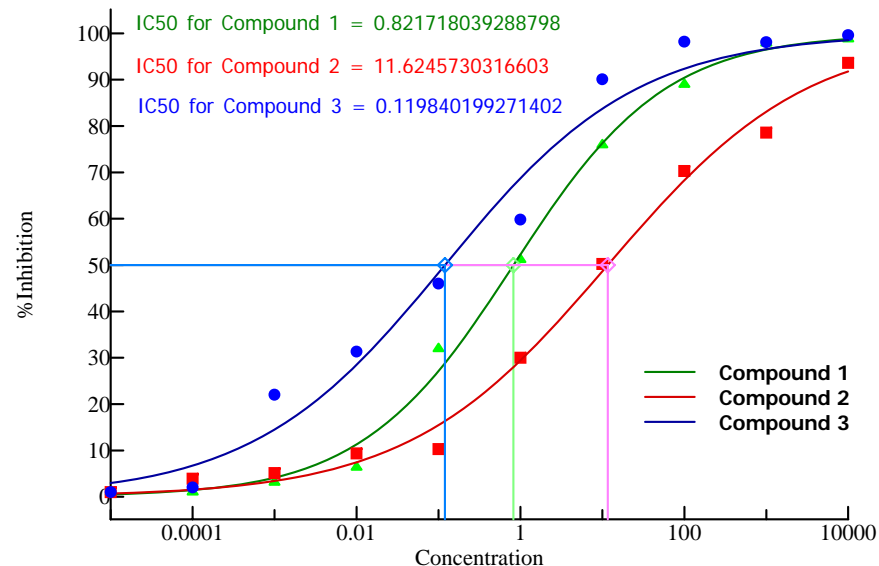
$$y = A + \frac{B - A}{1 + \left(\frac{C}{x}\right)^D}$$

Data:

Concentration	%Inhibition		
	1	2	3
0.00001	0.993	1.001	1
0.0001	1.02	3.9	2.002
0.001	3.12	5.1	22.01
0.01	6.36	9.36	31.33
0.1	31.97	10.29	46
1	51.2	30	59.8
10	75.96	50.22	90.1
100	89	70.3	98.2
1000	97.932	78.57	98.1
10000	98.8	93.65	99.6

Description:

In this example three sets of data have been plotted individually with confidence bands and IC50 values marked. The results of the analysis and an overlay graph of the individual charts combined together is then created and displayed with formatting.



Compound 1 Parameters				
Description	Name	Value	Confidence Intervals	Standard Error
Min Y Value	A	0	#N/A	#N/A
Max Y Value	B	100	#N/A	#N/A
IC50	C	0.821718039	0.267397679	0.115955487
Hill (Slope)	D	0.467962989	0.062865288	0.027261176
Compound 1 Fit Statistics				
Name		Value		
Chi²		53.95334939		
F-Test		1.017493146		
F-Test Significance		0.981034196		
T-Test		0.330663668		
T-Test Significance		0.749392394		
Iterations		30		
DOF		8		

Compound 2 Parameters			
Value	Confidence Intervals	Standard Error	
0	#N/A	#N/A	
100	#N/A	#N/A	
11.62457303	0.094984442	2.141444525	
0.357166548	0.096905136	0.021472459	
Compound 2 Fit Statistics			
Name		Value	
Chi²		69.55613276	
F-Test		1.015827022	
F-Test Significance		0.982826167	
T-Test		-0.300945671	
T-Test Significance		0.771129119	
Iterations		27	
DOF		8	

Compound 3 Parameters			
Value	Confidence Intervals	Standard Error	
0	#N/A	#N/A	
100	#N/A	#N/A	
0.11984	0.094984442	0.041189464	
0.370704	0.096905136	0.042022362	
Compound 3 Fit Statistics			
Name		Value	
Chi²		253.2558292	
F-Test		1.072206347	
F-Test Significance		0.92386871	
T-Test		-0.431038782	
T-Test Significance		0.677819139	
Iterations		35	
DOF		8	