

End-Point Assay Analysis Report

Analysis Method

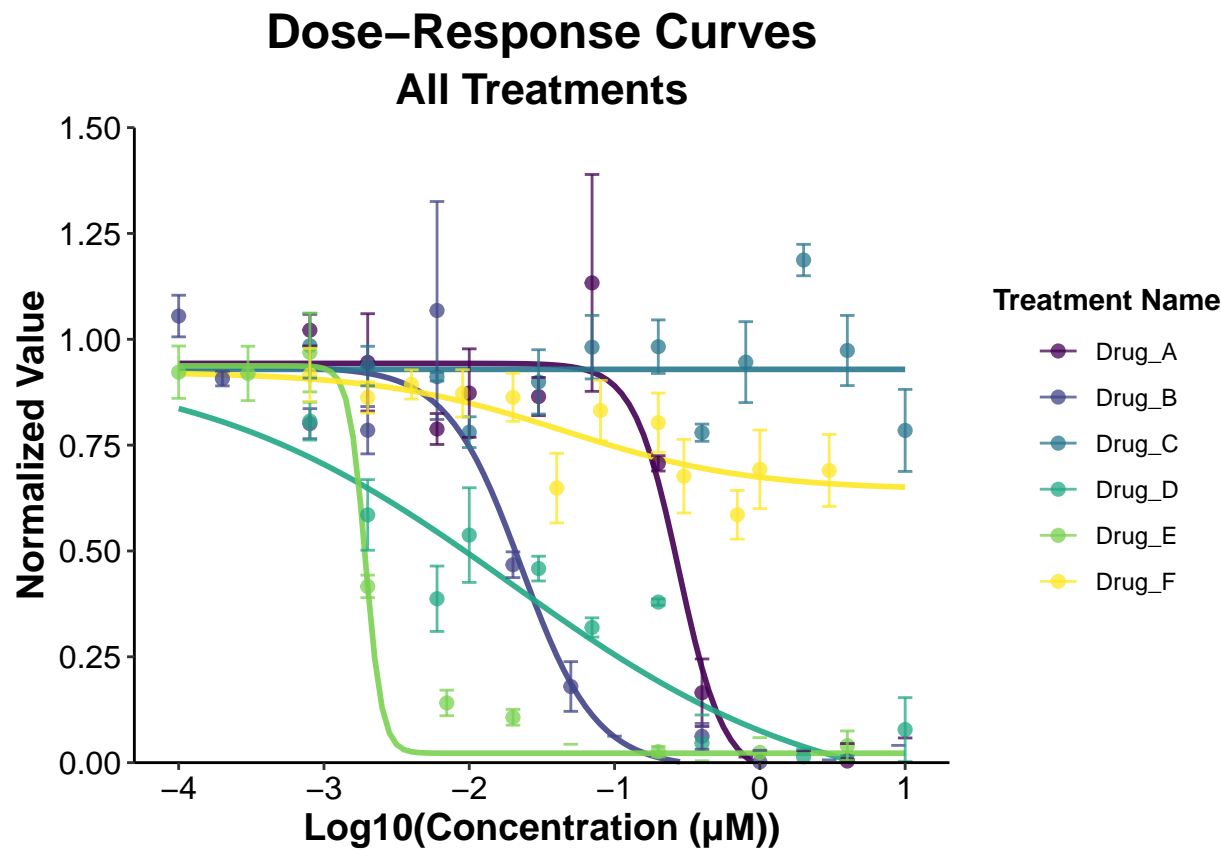
Dose-response curve analysis was performed using R version R version 4.4.3 (2025-02-28 ucrt), where 4-parameter logistic curves were fit using the ‘dr4pl’ package (version 2.0.0) and drug sensitivity scores (DSS3) were calculated based on methods described in Yadav et al. (2014)¹. DSS3 scores were modified such that treatments with an estimated slope parameter less than 0.1 were assigned a score of 0.

Results Table - All Treatments

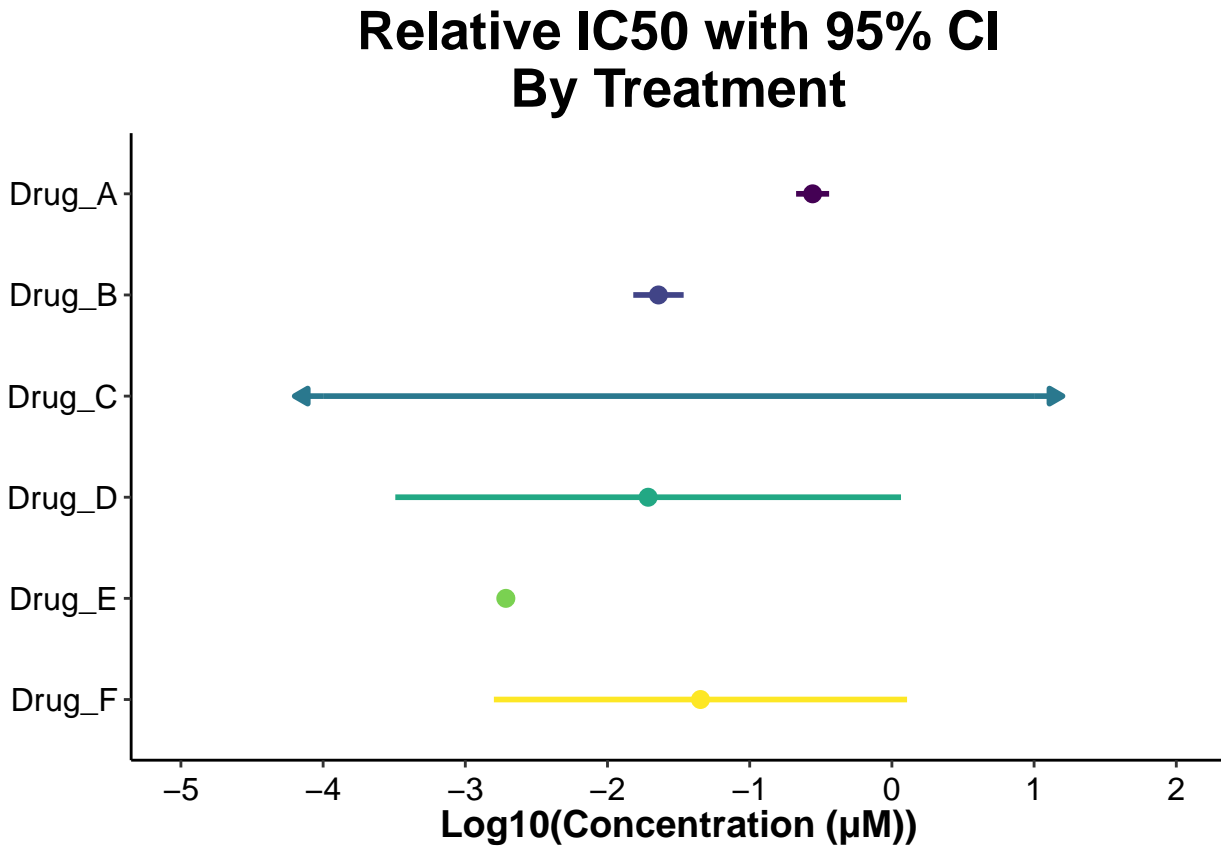
Treatment	Total Replicates	Number of Doses	Dose Range (μM)	Relative IC50	DSS3
Drug_A	36	12	0.0008-10	0.2770	16.58
Drug_B	36	12	0.0001-9	0.0228	30.49
Drug_C	36	12	0.0008-10	0.0000	0.00
Drug_D	36	12	0.0008-10	0.0193	60.34
Drug_E	36	12	0.0001-10	0.0019	52.30
Drug_F	36	12	0.0008-3	0.0451	5.84

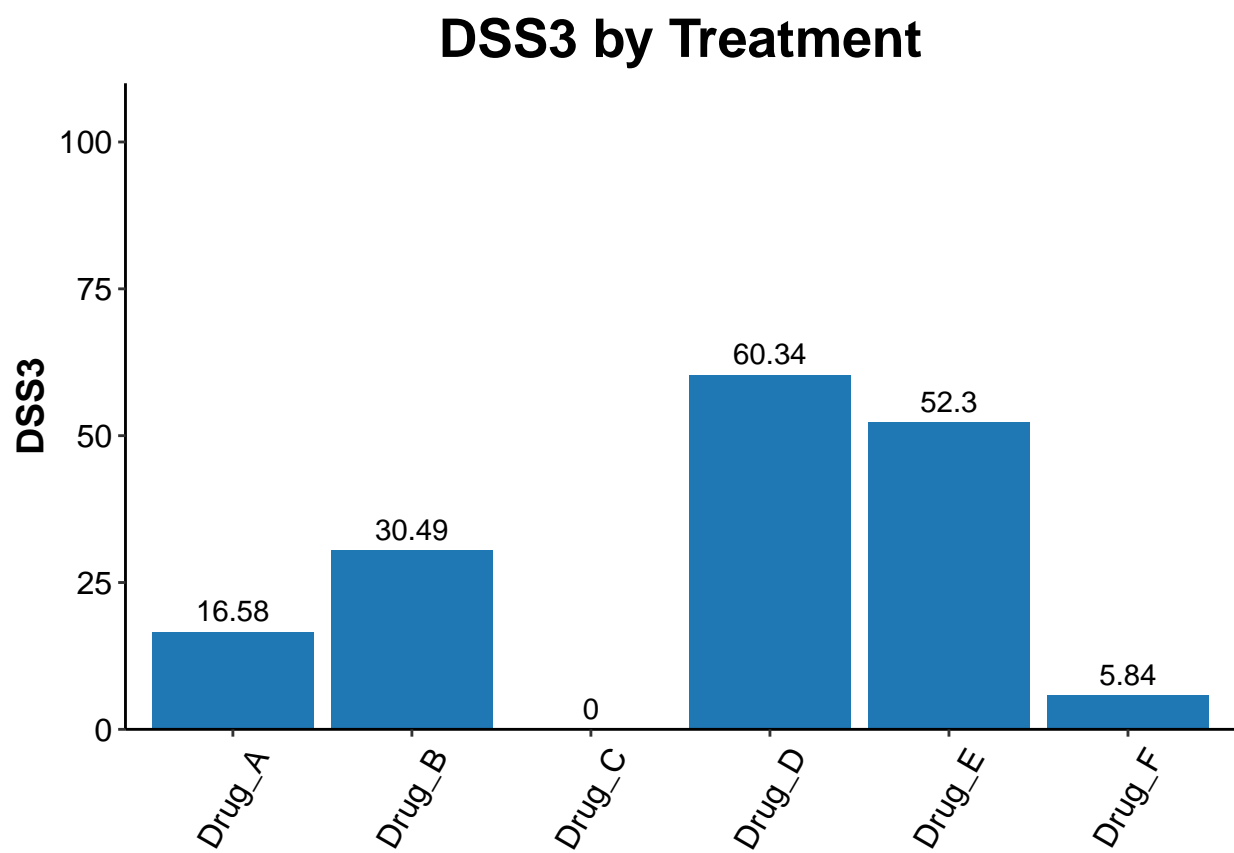
¹Yadav et al. (2014). Quantitative scoring of differential drug sensitivity for individually optimized anticancer therapies. *Scientific Reports*, 4(1), 5193. <https://doi.org/10.1038/srep05193>

Dose-Response Curve Plot - All Treatments



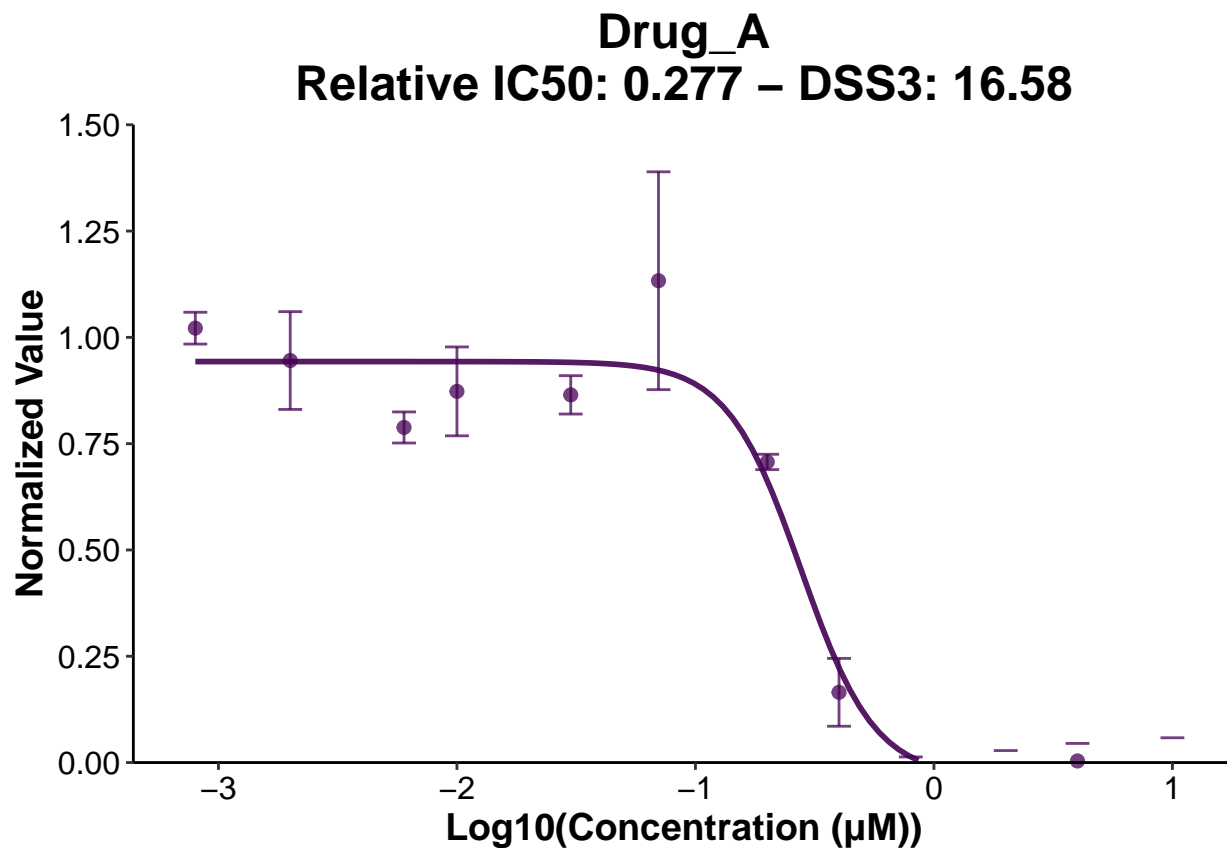
Relative IC50 and 95% Confidence Intervals Plot - All Treatments





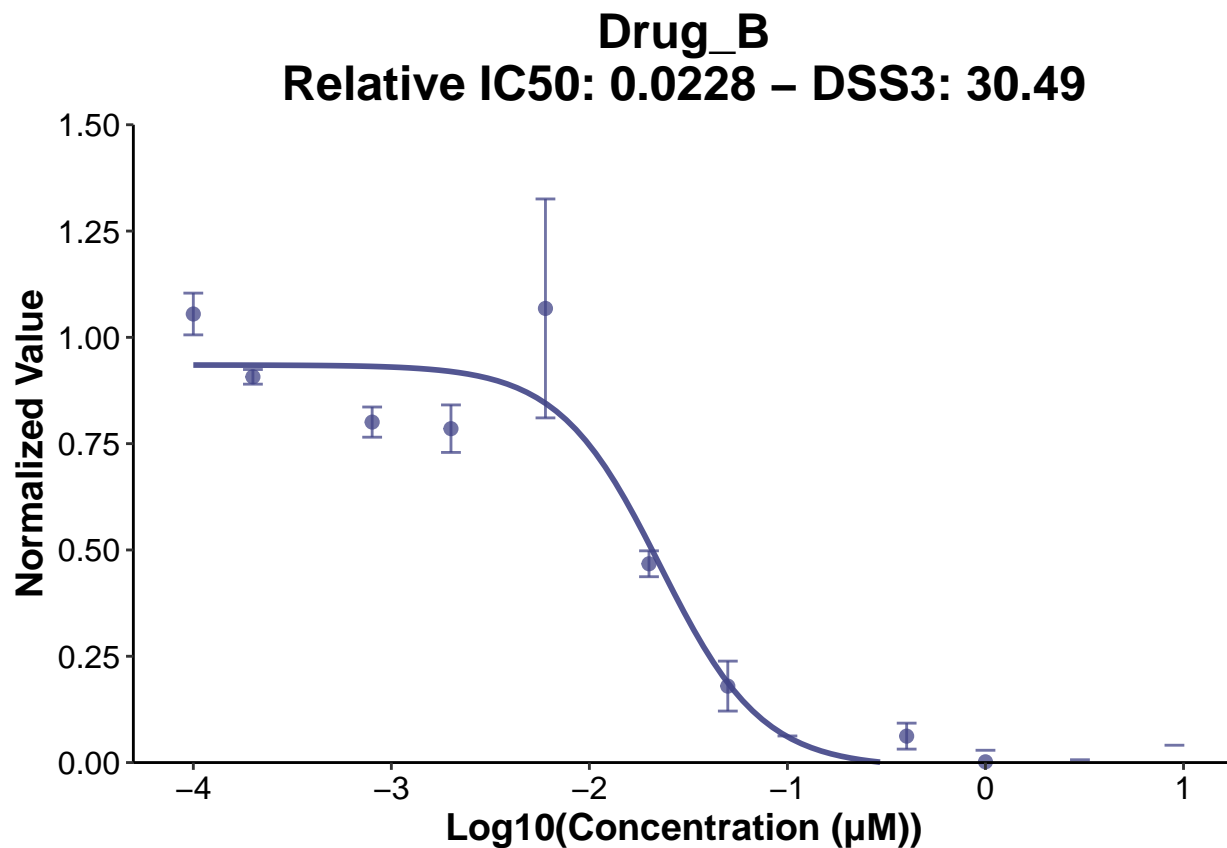
Drug_A

Variable	Value
Treatment name	Drug_A
Function type	4-param logistic
Number observations	36
Number unique concentrations	12
Concentration range (μM)	0.0008 - 10
Upper asymptote estimate [95% CI]	0.94 [0.86,1.03]
Lower asymptote estimate [95% CI]	-0.03 [-0.14,0.07]
Slope estimate [95% CI]	2.804 [1.353,4.256]
Relative IC50 estimate [95% CI]	0.277 [0.212,0.3619]
Drug Sensitivity Score (DSS3)	16.58



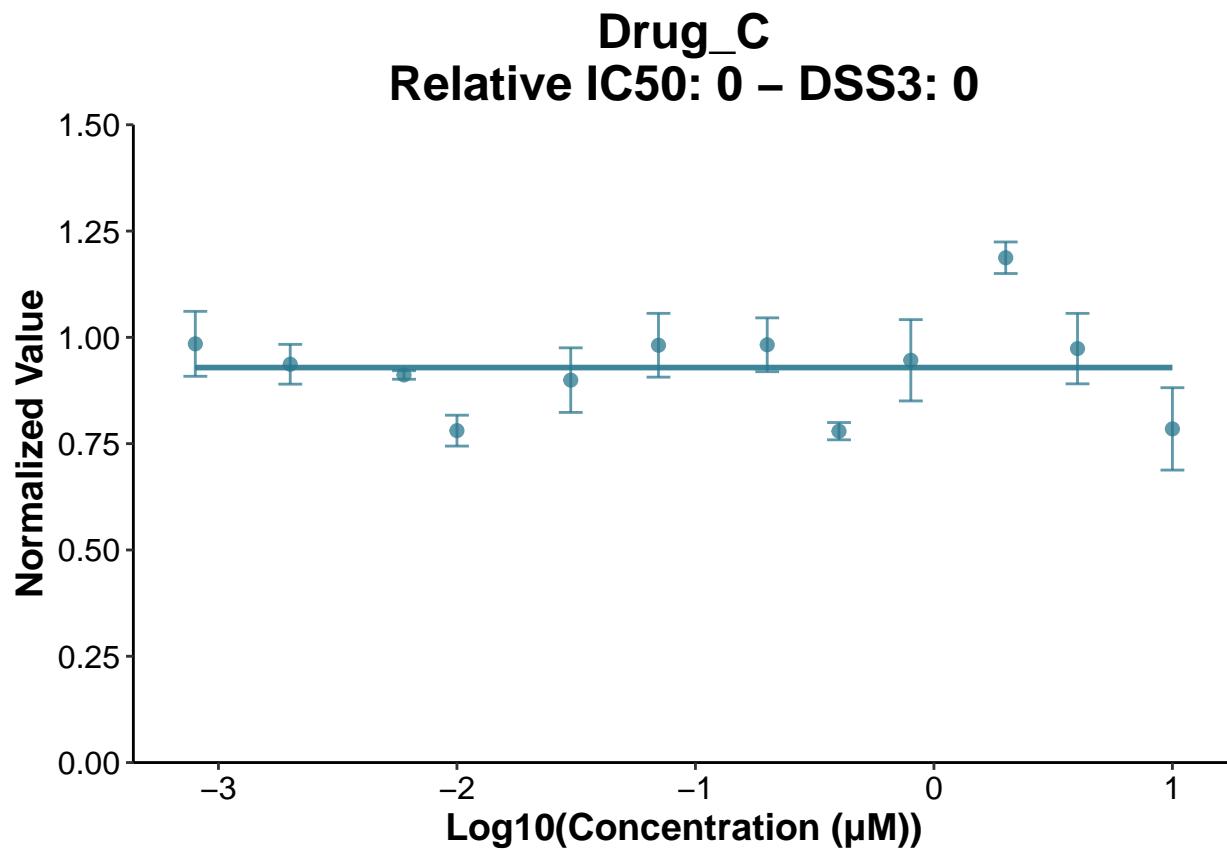
Drug_B

Variable	Value
Treatment name	Drug_B
Function type	4-param logistic
Number observations	36
Number unique concentrations	12
Concentration range (µM)	0.0001 - 9
Upper asymptote estimate [95% CI]	0.93 [0.84,1.03]
Lower asymptote estimate [95% CI]	-0.01 [-0.11,0.08]
Slope estimate [95% CI]	1.687 [0.765,2.609]
Relative IC50 estimate [95% CI]	0.0228 [0.0152,0.0343]
Drug Sensitivity Score (DSS3)	30.49



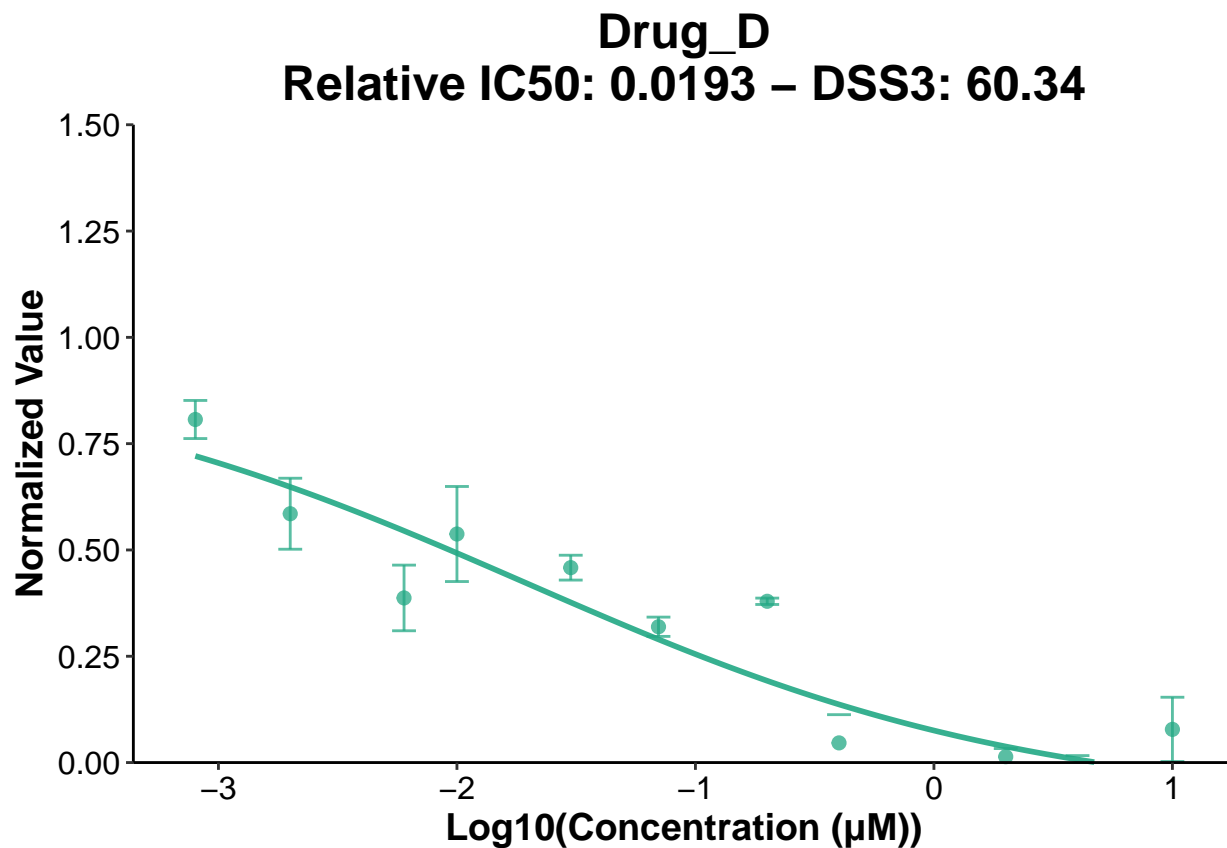
Drug_C

Variable	Value
Treatment name	Drug_C
Function type	4-param logistic
Number observations	36
Number unique concentrations	12
Concentration range (µM)	0.0008 - 10
Upper asymptote estimate [95% CI]	1.32 [-626.35,628.99]
Lower asymptote estimate [95% CI]	0.93 [0.87,0.99]
Slope estimate [95% CI]	0.361 [-16.174,16.896]
Relative IC50 estimate [95% CI]	0 [0,999999]
Drug Sensitivity Score (DSS3)	0



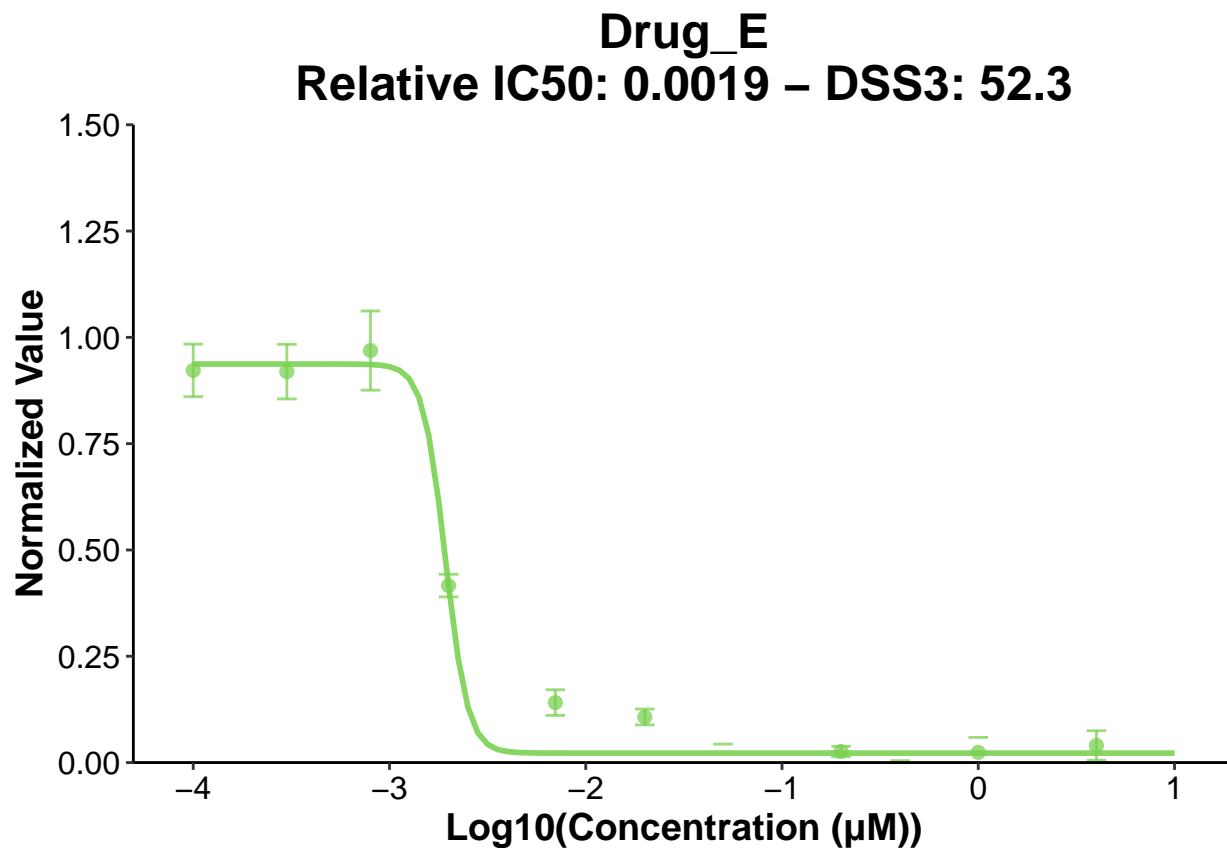
Drug_D

Variable	Value
Treatment name	Drug_D
Function type	4-param logistic
Number observations	36
Number unique concentrations	12
Concentration range (µM)	0.0008 - 10
Upper asymptote estimate [95% CI]	0.95 [0.07,1.82]
Lower asymptote estimate [95% CI]	-0.1 [-0.4,0.19]
Slope estimate [95% CI]	0.404 [-0.084,0.891]
Relative IC50 estimate [95% CI]	0.0193 [0.0003,1.1586]
Drug Sensitivity Score (DSS3)	60.34



Drug_E

Variable	Value
Treatment name	Drug_E
Function type	4-param logistic
Number observations	36
Number unique concentrations	12
Concentration range (µM)	0.0001 - 10
Upper asymptote estimate [95% CI]	0.94 [0.87,1.01]
Lower asymptote estimate [95% CI]	0.02 [-0.02,0.06]
Slope estimate [95% CI]	7.625 [-18.4,33.65]
Relative IC50 estimate [95% CI]	0.0019 [0.0017,0.0022]
Drug Sensitivity Score (DSS3)	52.3



Drug_F

Variable	Value
Treatment name	Drug_F
Function type	4-param logistic
Number observations	36
Number unique concentrations	12
Concentration range (μM)	0.0008 - 3
Upper asymptote estimate [95% CI]	0.92 [0.72,1.13]
Lower asymptote estimate [95% CI]	0.64 [0.45,0.84]
Slope estimate [95% CI]	0.677 [-0.751,2.106]
Relative IC50 estimate [95% CI]	0.0451 [0.0016,1.2787]
Drug Sensitivity Score (DSS3)	5.84

Drug_F
Relative IC50: 0.0451 – DSS3: 5.84

