GDSC fitted dose response description

Possible columns in GDSC fitted data results file. Not every listed column is present in every file.

Column	Description	Notes
DATASET_VERSION	Each dataset is processed (curve fitted and ANOVA analysis) as a whole.	
IC50_RESULTS_ID	Identifier for the fitted dose response	
COSMIC_ID	Cell identifier from the COSMIC database	
CELL_LINE_NAME	Primary name for the cell line	
DRUG_ID	Unique identifier for a drug. Used for internal lab tracking	
DRUG_NAME	Primary name for the drug	
PUTATIVE_TARGET	Putative drug target	

MAX_CONC_MICROMOLAR	Maximum micromolar screening concentration of the drug	
MIN_CONC_MICROMOLAR	Minimum micromolar screening concentration of the drug	
LN_IC50	Natural log of the fitted IC50	To convert to micromolar take the exponent of this value, i.e. exp(IC50_nat_log)
AUC	Area Under the Curve for the fitted model. Presented as a fraction of the total area between the highest and lowest screening concentration.	
RMSE	Root Mean Squared Error, a measurement of how well the modelled curve fits the data points.	Curves with RMSE > 0.3 are excluded prior to release as part of quality control.
Z_SCORE	Z score of the LN_IC50 (x) comparing it to the mean (μ) and standard deviation (σ^2) of the LN_IC50 values for the drug in question over all cell lines treated.	$Z = \frac{x - \mu}{\sigma^2}$