

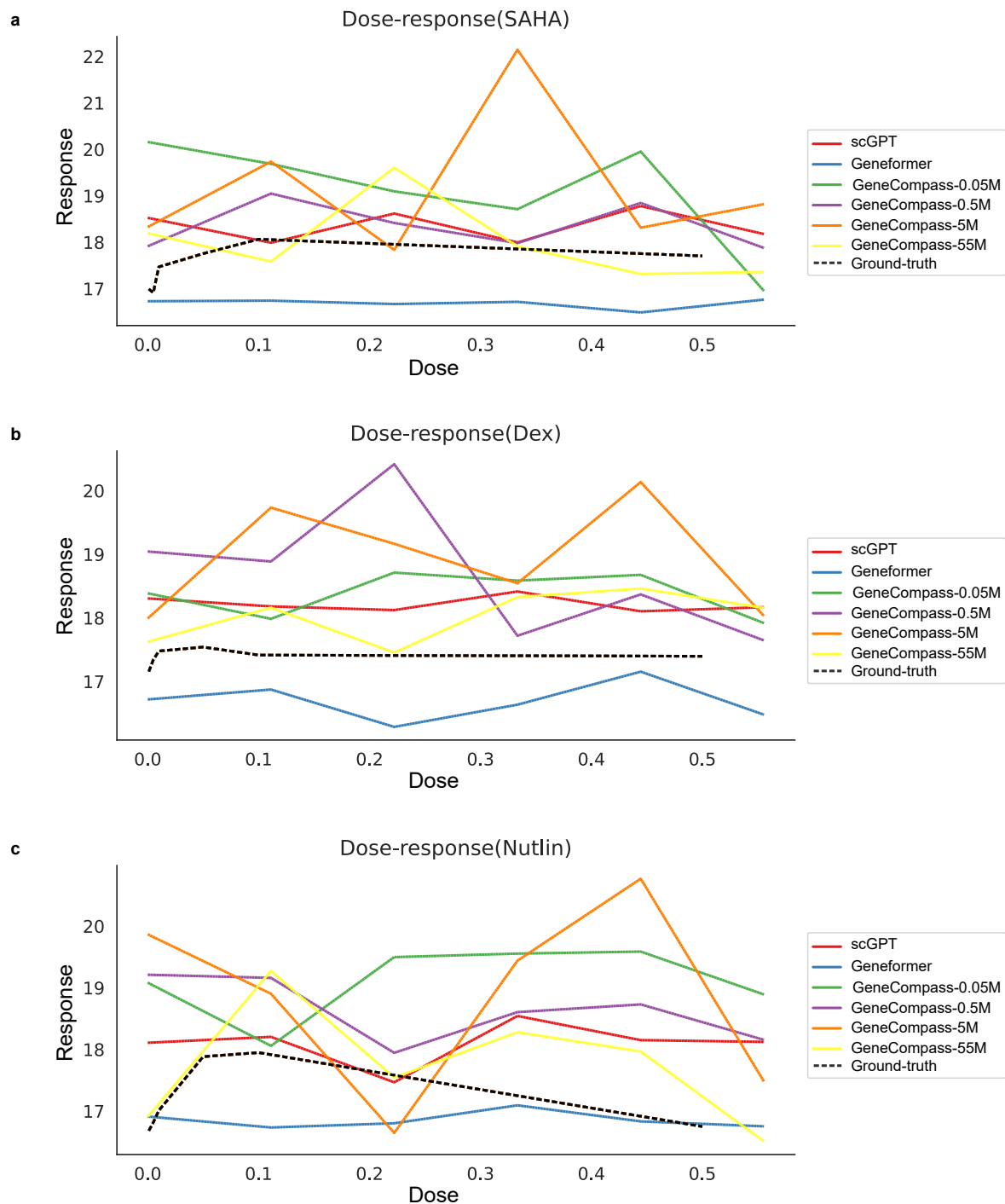


Fig. S8| Results of drug dose-response prediction task. All solid lines in the figure represent the predictive responses of a model when exposed to drugs: **a**, SAHA; **b**, Dex; **c**, Nutlin. Specifically, GeneCompass-0.05M, GeneCompass-0.5M, GeneCompass-5M, and GeneCompass-55M correspond to the GeneCompass models trained by 0.05 million, 0.5 million, 5 million, and 55 million human data, respectively. The dashed lines "--" denote the ground-truth results.

