

Supplementary Table S1: Animals lost during experiment.

Model/passage	Treatment group	Day of experiment	Remark
UZLX- GIST9p.4	Imatinib	7	Tumor exceeding acceptable volume
	Imatinib	10	Body weight loss (<80% of baseline)
	Dovitinib	8	Abnormal tumor growth (into peritoneal cavity)
	Dovitinib	21	Found dead, body weight loss (>80%)
UZLX- GIST2p.17	Binimetinib	13	Body weight loss (<80% of baseline)
	Binimetinib	20	Body weight loss (<80% of baseline)
GIST48	Control	3	Body weight loss (<80% of baseline)
	Imatinib	13	Body weight loss (<80% of baseline)