<u>Supplementary Table 1:</u> Pharmacokinetic Parameters in WT and TKO Mice after Oral Dosing with 15 mg/kg Dasatinib (Data presented as Mean ± S.E. of Estimate)

Mouse Genotype	Tissue	T_{max} (hr)	C_{max} (µg/mL)	AUC_{last}[1] (µg.hr/mL)	Kp[2]	Kp Ratio[3]
WT	Plasma	2	0.417 ± 0.189	1.31 ± 0.318	0.12	7.6
WT	Brain	4	0.052 ± 0.039	0.160 ± 0.078		
TKO	Plasma	0.5	0.451 ± 0.053	1.78 ± 0.240[#]	0.93	
TKO	Brain	6	0.161 ± 0.048	1.63 ± 0.241*		

1. Area under the curve from time zero to 12 hour post dose
2. Kp = AUC_{brain}/AUC_{plasma}
3. Kp Ratio = Kp in KO Mice / Kp in WT Mice
4. [#], $p > 0.05$ compared to WT plasma
5. *, $p = 0.001$ compared to WT brain

Pharmacokinetic Parameters in WT and TKO Mice after Oral Dosing with 15 mg/kg Dasatinib (Data presented as Mean ± S.E. of Estimate). The total plasma exposure in wild-type mice is not significantly different as compared to the *Mdr1a/b(-/-)Bcrp1(-/-)* mice. However, the total brain exposure in *Mdr1a/b(-/-)Bcrp1(-/-) mice* is ~10 fold higher than the wild-type mice, resulting in a drug targeting index of 7.6.