



**S1 Fig. Results of the performed sensitivity analysis for budesonide.**

For each of three different exposure measures readouts (AUC, C<sub>12</sub>, and lung selectivity), the impact of a 2-fold increase (blue) and decrease (red) are depicted for a the formulation parameter particle size (top bar) and a set of physiological (middle bars) and drug-dependent parameters (bottom bars). The larger a bar, the stronger the impact of the varied parameter on the respective PK readout.