

Supplementary Information

Table S1. The estimated values of logP and *in silico* permeability across model interfaces.

Name	logP	Human Jejunal Effective		Permeability (MDCK) (cm/s × 10 ⁷)	Permeability (Rabbit Cornea) (cm/s × 10 ⁷)	Permeability (Skin) (cm/s × 10 ⁷)
		Permeability (cm/s × 10 ⁴)				
4	3.46	3.34		71.79	71.94	0.17
5	4.01	3.57		59.96	87.65	0.05
6	4.13	3.75		52	84.62	0.05
7	3.82	4.47		88.73	204.61	42.42
8	4.42	5.07		89.45	238.88	37.93
9	4.52	5.37		74.74	233.1	45.62
10	4.71	5.04		236.57	208	1.69
11	5.27	5.64		249.17	280.16	15.74
12	5.4	5.94		230.41	249.71	15.02
13	4.95	5.19		290.51	208.37	7.16
14	5.5	5.78		306.07	262.44	64.34
15	5.63	6.08		287.23	243.42	67.2

Table S2. The estimated solubility in water and biorelevant gastro-intestinal fluids.

Name	Solubility	Intrinsic	Solubility	Solubility in	Solubility in	Solubility in
	Water	Solubility	at pH = 7.4	FaSSGF	FaSSIF	FeSSIF
	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL
4	0.00128	0.00116	0.00154	0.01030	0.03820	0.09760
5	0.00066	0.00058	0.00075	0.00546	0.02320	0.06990
6	0.00079	0.00071	0.00087	0.00475	0.02100	0.06440
7	0.00138	0.00115	0.00239	0.01400	0.30900	0.09010
8	0.00070	0.00051	0.00138	0.00579	0.17400	0.06340
9	0.00080	0.00060	0.00144	0.00495	0.15600	0.05630
10	0.00037	0.00037	0.00037	0.00721	0.01800	0.01730
11	0.00019	0.00019	0.00019	0.00360	0.01120	0.01230
12	0.00026	0.00026	0.00026	0.00308	0.01020	0.01140
13	0.00039	0.00039	0.00039	0.00535	0.01350	0.01410
14	0.00021	0.00021	0.00021	0.00275	0.00874	0.01020
15	0.00028	0.00028	0.00028	0.00234	0.00797	0.00942

FaSSGF—Fast State Simulated Gastric Fluid; FaSSIF—Fast State Simulated Intestinal Fluid; FeSSIF—Fed State Simulated Intestinal Fluid.

Portions of these results were generated by ADMET Predictor™ software provided by Simulations Plus, Inc., Lancaster, CA, USA.

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