

Test System

Species Human
 Cell line name Human airway H441 cells

information about the data set
 file listing the IDs of wells

Duration of dosing 2.5
 Unit of time for duration of dosing hours
 Concentration 1 & 10
 Concentration unit μM

test agent(s)

Test Article 2-Chloropalmitic acids (2Cl-PA) & 2-Bromopalmitic Acids (2Br-PA)
 Negative control palmitic Acids (PA)
 Positive control
 Vehicle (control) ethanol

figure S1 A
 lipid/basal

control	PA 1 μM	2-CIPA 1 μM	2-BrPA 1 μM	control	PA 10 μM	2-CIPA 10 μM	2-BrPA 10 μM
1.031308	0.975878	0.973745	0.976098	0.977573	0.907527	0.921048	1.018852
0.997942	0.94391	0.927311	0.960899	0.950243	0.866655	0.884131	0.989626
1.098341	1.047152	1.01445	1.014903	0.931367	0.964965	1.041943	1.090182
				1.01082	0.955468	1.041974193	
				0.666676	0.85959	1.173554793	1.334321608
				0.978478	0.928495	0.641286875	0.91679584

figure S1 B
 ATP OCR

control	PA 1 μM	2-CIPA 1 μM	2-BrPA 1 μM	control	PA 10 μM	2-CIPA 10 μM	2-BrPA 10 μM
76.90068	77.55198	76.92227	77.170457	82.23465	75.5764	53.6661371	61.5676003
74.6832	75.70932	75.540434	78.788703	75.08717	76.78844	54.7776548	56.4656727
77.70469	75.35151	69.455306	73.649524	71.8027	74.76084	21.7867849	56.2202631
				80.47326	86.49956	47.78244011	
				83.95935	82.13506	6.523261037	-3.73169
				112.0019	108.7641	54.87791281	

figure S1 C
 proton Leak

control	PA 1 μM	2-CIPA 1 μM	2-BrPA 1 μM	control	PA 10 μM	2-CIPA 10 μM	2-BrPA 10 μM
23.09932	22.44802	23.0777303	22.8295431	25.62495	24.4236	46.33386287	38.43239966
25.3168	24.29068	24.4595664	21.2112967	24.91283	23.21156	45.22234523	43.53432735
22.29531	24.64849	30.544694	33.1208714	36.32623	25.23916	78.21321507	43.77973693
				18.21317	17.88501	50.1201377	
				16.04065	17.08839	93.47673896	103.7316926
				-12.0019	-8.30918	28.9960825	

Figure S1 D
 Maximal OCR

control	PA 1 μM	2-CIPA 1 μM	2-BrPA 1 μM	control	PA 10 μM	2-CIPA 10 μM	2-BrPA 10 μM
182.7893	164.5804	164.413396	166.241978	128.6382	162.8358	132.2147932	133.0857717
193.9323	168.8411	144.266371	162.395549	135.8281	160.0108	112.9088284	113.4813877
195.126	168.308	172.706739	181.457204	168.2153	176.402	112.9889145	154.038622
				251.1214	235.5328	156.7469611	
				199.8838	218.675	221.9318662	307.6162167
				322.9717	294.7565	175.6271602	

Figure S1 E
Reserve Capacity

control	PA 1µM	2-CIPA 1µM	2-BrPA 1µM	control	PA 10µM	2-CIPA 10µM	2-BrPA 10µM
99	107.64	109.19041	104.72399	99	175.8853	92.2574972	91.487941
100	81.25049	49.550675	65.366807	100	203.3097	39.59312	61.95963
101	69.09644	92.744951	102.62057	100	268.0695	20.76063	173.7243
				100	141.3837	56.7200311	51.2964199
				100	108.566	36.17373	60.90309
				101	98.27586	41.37931034	

Figure S1 F
No-mitochondrial

control	PA 1µM	2-CIPA 1µM	2-BrPA 1µM	control	PA 10µM	2-CIPA 10µM	2-BrPA 10µM
29.96598	26.80323	28.96606	31.01606	27.7857	25.22227	26.44224	25.33288
24.5983	25.34956	26.02536	29.80269	23.55672	29.70229	23.23442	23.05062
42.25317	40.37511	42.82157	51.38875	38.75036	43.51161	42.35682	45.98864
				17.08966	19.14568	15.5163	
				27.93411	21.33588	31.0949	32.85401
				43.40491	39.67858	37.65033	

Figure S1 G
ECAR2:30/ECAR 0

control	PA 1µM	2-CIPA 1µM	2-BrPA 1µM	control	PA 10µM	2-CIPA 10µM	2-BrPA 10µM
0.987899	1.075732	1.18653896	1.22823655	0.947233	1.135589	1.151854076	1.127560978
1.098249	1.30602	1.52213816	1.72906092	1.191366	1.815219	2.205470567	1.485347918
1.189943	1.341565	1.95426412	2.30791837	1.348252	2.147733	2.867075271	1.560241497
				1.228983	1.333607	1.597133664	
				1.154104	1.216408	1.245617893	1.074738775
				1.177489	1.119179	1.241387735	1.048599044

Figure S1 H
Glycolysis Reserve Capacity

control	PA 1µM	2-CIPA 1µM	2-BrPA 1µM	control	PA 10µM	2-CIPA 10µM	2-BrPA 10µM
78.18948	78.8911	77.74712	87.26167	57.27554	90.21195	53.2081	56.88281
51.4475	45.69121	46.82714	56.96361	34.73327	52.25468	23.42271	29.8416
47.43489	42.41836	41.43542	52.7364	28.62776	51.33069	10.75353	28.88518
				44.41693	66.23944	19.86156	
				35.34693	50.64919	-1.30326	-1.45312
				38.86858	41.09732	0.808676	-1.56844