

Test System

Species Human
 Primary Cells Primary human bronchial epithelial Cells IRB# 080625002

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 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 2S A
 Lipid/Basal

control	PA 10 μM	2-CIPA 10 μM	2-BrPA 10 μM
0.952506	1.100987	0.997436201	
0.955103	0.898498	0.906528754	
0.897182	1.084242	1.456306785	
1.183351	0.99068	1.023923291	0.815096522
1.116395	1.15438	1.099158858	1.006471335
1.075169	1.28544	1.523749193	1.291706475
1.616882	1.328213	1.228155118	1.254233324

figure 2S B
 ATP OCR

control	PA 10 μM	2-CIPA 10 μM	2-BrPA 10 μM
83.4959	83.2941	-1.3372083	
70.4157	94.1402	7.33095081	
72.1896	77.5485	-0.8026643	
60.02196	38.87202	16.00227894	2.919310005
87.054	85.2778	19.9003406	64.7504778
29.24951	21.72663	-9.13857427	-0.9140508

figure 2S C
Proton Leak

control	PA 10µM	2-CIPA 10µM	2-BrPA 10µM
16.50415	16.7059	101.3372083	
36.82725	20.50157	111.9234822	
45.06412	22.45154	100.8026643	
39.97804	61.12798	83.99772106	97.08069
12.94596	14.30516	80.09965943	35.24952223
70.75049	78.27337	109.1385743	100.9140508

figure 2S D
Maximal OCR

control	PA 10µM	2-CIPA 10µM	2-BrPA 10µM
109.2172	126.3065	84.38536118	
214.1202	228.5478	161.3920499	
119.0524	201.0109	112.5600533	
194.0443	191.2526	84.57289358	115.9960692
211.0946	208.6891	154.2887651	189.7585322
113.4202	109.6054	102.3026448	104.1607402

figure 2S E
Reserve Capacity

control	PA 10µM	2-CIPA 10µM	2-BrPA 10µM
99	151.5175	-102.959029	
100	122.2432	42.46106654	
100	374.6772	28.61942257	
100	148.5253	-1.83071534	35.06234226
100	109.5978	49.73731031	89.85871272
101	104.6523	39.38036581	55.31914894

figure 2S F
No-mitochondrial

control	PA 10µM	2-CIPA 10µM	2-BrPA 10µM
30.66219	31.30361	34.98901	
35.31143	35.40069	39.4809	
30.131	56.03458	47.46449	
41.71185	44.60884	35.51874	55.11158
45.93055	24.23176	21.23239	37.92864
57.17222	67.67672	62.61964	62.2929

figure 2S G
ECAR2:30/ECAR0

control	PA 10µM	2-CIPA 10µM	2-BrPA 10µM
1.131448	1.213862	1.744527407	
1.109973	1.078324	1.25308562	
1.21793	1.238587	1.067035102	
1.068549	1.099775	0.899012808	1.075948595
1.037526	1.030033	0.973468514	1.199241391
0.61357	0.832991	1.156806425	1.04937934

figure 2S H
Glycolysis Reserve Capacity

control	PA 10 μ M	2-CIPA 10 μ M	2-BrPA 10 μ M
44.1854	45.13573	-6.4403	
21.20732	19.07913	-8.81673	
19.73514	44.44082	-0.18636	
21.08838	52.32791	45.00849	46.54002
36.79634	40.3537	10.26616	32.7947
22.36915	8.376198	-16.6227	-7.70794