

1 **Supplementary table 1.** NF-kappa-B signaling compound library

No.	name
1	Mesalamine
2	Andrographolide
3	Indole-3-carbinol
4	Magnolol
5	(-)-Parthenolide
6	Bardoxolone Methyl
7	LY2409881
8	ML130 (Nodinitib-1)
9	IMD 0354
10	IKK-16 (IKK Inhibitor VII)
11	BAY 11-7082
12	Bay 11-7085
13	Triptolide (PG490)
14	Rosmarinic acid
15	Dehydrocostus Lactone
16	Pyrrolidinedithiocarbamate ammonium
17	Cardamonin
18	Curcumenol
19	Sodium 4-Aminosalicylate
20	Diethylmaleate
21	QNZ (EVP4593)
22	SC-514
23	SC75741
24	JSH-23
25	Sodium salicylate
26	Caffeic Acid Phenethyl Ester
27	WS3
28	WS6
29	Omaveloxolone (RTA-408)
30	PS-1145
31	TPCA-1
32	AZD3264
33	MRT67307 HCl
34	BMS-345541
35	Evodiamine
36	GSK583
37	GSK'963
38	Incense acetate
39	Engeletin
40	Praeruptorin A
41	INH14
42	Isorhamnetin

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4 **Supplementary table 2.** Six patients information of aortic valve tissue for cell
5 isolation and ex vivo culturing.

Patients	Sex	Age	diagnose	Aortic valve Hemodynamics	
				Jet velocity (m/s)	Mean Pressure gradient (mmHg)
Patient 1	Male	46	aortic dissection	1.2	N.A.
Patient 2	Male	48	aortic dissection	1.4	N.A.
Patient 3	Female	41	aortic dissection	1.2	N.A.
Patient 4	Female	53	aortic dissection	1.3	N.A.
Patient 5	Male	51	aortic dissection	1.2	N.A.
Patient 6	Female	37	aortic dissection	1.1	N.A.

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