

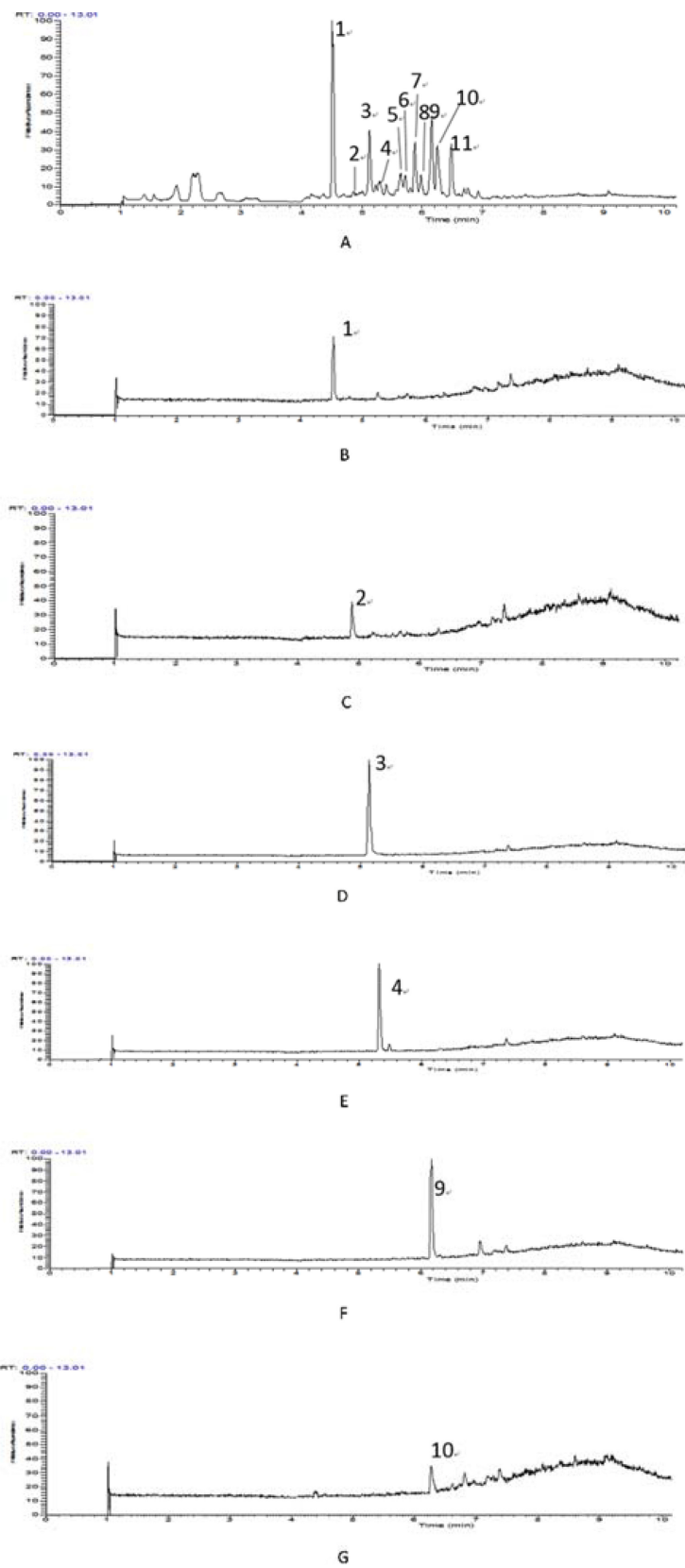
DanHong injection targets endothelin receptor type B and angiotensin II receptor type 1 in protection against cardiac hypertrophy

SUPPLEMENTARY MATERIALS

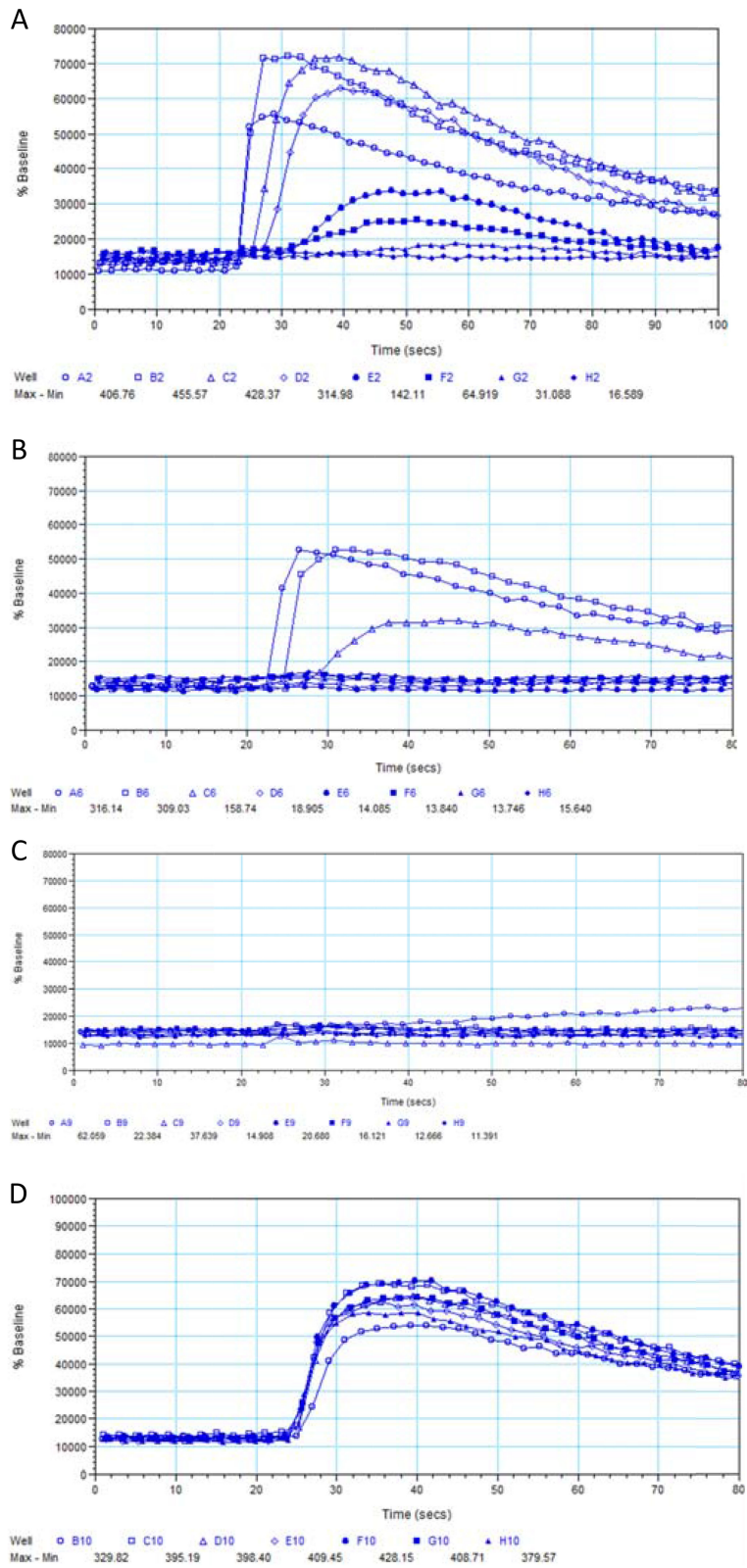
Supplementary Table 1: Information for standard compounds in DHI

No.	Name	Retention Time (min)	Compound formula	Experimental m/z	Theoretical m/z	Error Δppm
1	tanshinol	4.51	C ₉ H ₁₀ O ₅	197.0445 [M-H] ⁻	197.0455	-5.1
2	hydroxy safflor yellow A	4.87	C ₂₇ H ₃₁ O ₁₆	611.1617[M-H] ⁻	611.1618	-0.2
3	protocatechuic aldehyde	5.12	C ₇ H ₆ O ₃	137.0230 [M-H] ⁻	137.0244	-10.2
4	caffeic acid	5.32	C ₉ H ₈ O ₄	179.0339 [M-H] ⁻	179.0350	-6.1
5	(2S, 3S)-1-Phenyl-2,3-butanediol-3-O-D-glucopyranoside	5.63	C ₁₇ H ₂₆ O ₉	373.1501 [M+COOH] ⁻	373.1504	-0.8
6	salvianolic acid I	5.72	C ₂₇ H ₂₂ O ₁₂	537.1038 [M-H] ⁻	537.1038	0.0
7	salvianolic acid D	5.88	C ₂₀ H ₁₈ O ₁₀	417.0821 [M-H] ⁻	417.0827	-1.4
8	salvianolic acid E	5.98	C ₃₆ H ₃₀ O ₁₆	717.1459 [M-H] ⁻	717.1461	-0.3
9	rosmarinic acid	6.16	C ₁₈ H ₁₆ O ₈	359.0769 [M-H] ⁻	359.0772	-0.8
10	salvianolic acid B	6.25	C ₃₆ H ₃₀ O ₁₆	717.1455 [M-H] ⁻	717.1461	-0.8
11	salvianolic acid A	6.48	C ₂₆ H ₂₂ O ₁₀	493.1135 [M-H] ⁻	493.1140	-1.0

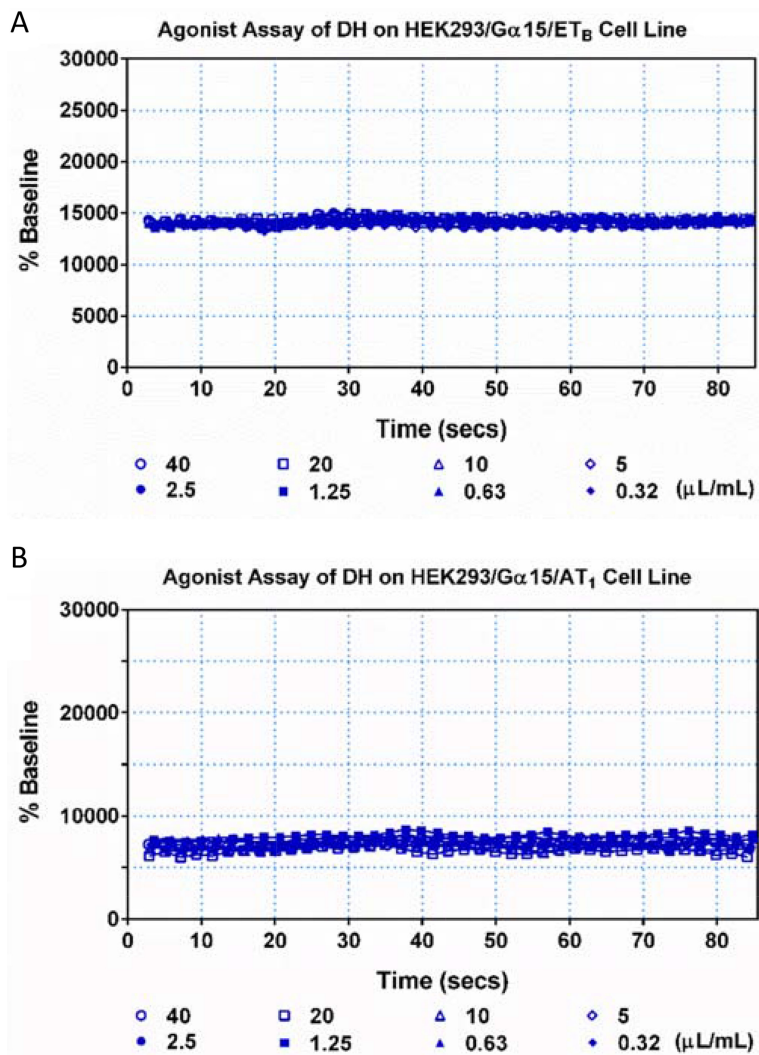
Supplementary Table 2: Hypertrophy related genes from HPO and OMIM. See Supplementary_ Table_2



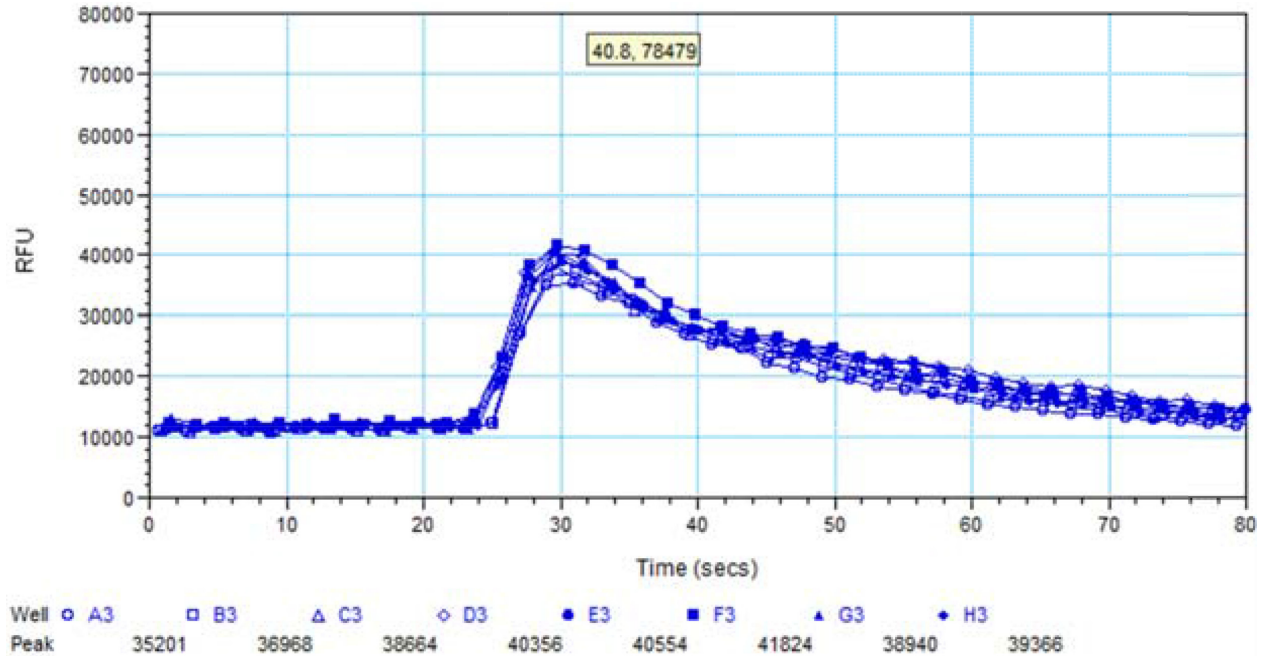
Supplementary Figure 1: The typical total ion chromatography (TIC) profiles of DanHong injection (DH) and the standards. (A) TIC of DH; (B–G) TIC of the standards. 1 tanshinol; 2 hydroxy safflor yellow A; 3 protocatechuic aldehyde; 4 caffeic acid; 5 (2S, 3S)-1-Phenyl-2,3-butanediol-3-O-D-glucopyranoside; 6 Salvianolic acid I; 7 Salvianolic acid D; 8 Salvianolic acid E; 9 rosmarinic acid (10); 10 salvianolic acid B; 11 salvianolic acid A.



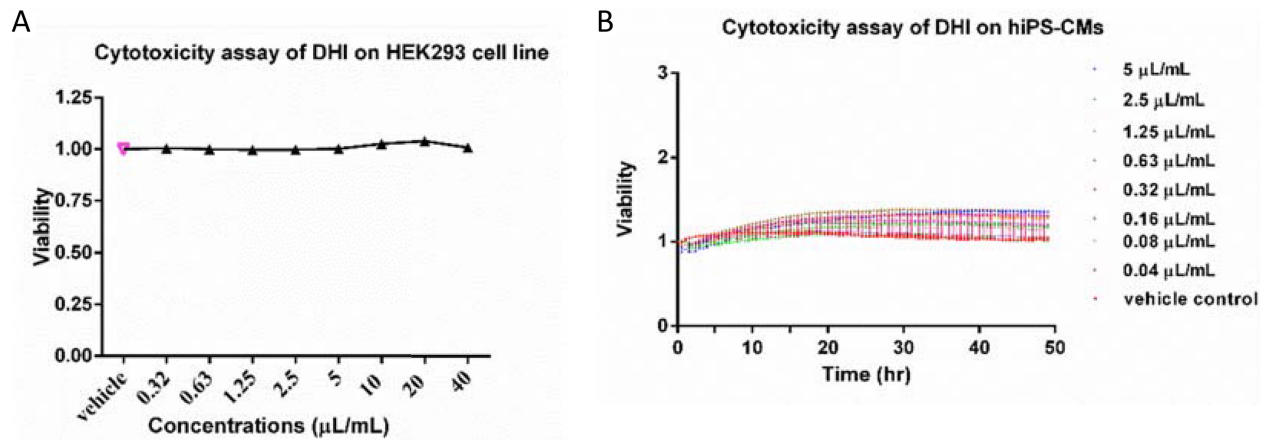
Supplementary Figure 2: Agonist and antagonist assays of DH on HEK293/Gα15/ETA cell line. (A) Agonist assay of the HEK293/Gα15/ETA cell line. Dose-response curve for ET-1. (B) Antagonist assay of the HEK293/Gα15/ETA cell line. Dose-response curve for bosentan. (C) Agonist assay of DH on HEK293/Gα15/ETA cell line. DH showed no agonism on ETAR. (D) Antagonist assay of DH on HEK293/Gα15/ETA cell line. DH showed no antagonism on ETAR.



Supplementary Figure 3: Agonist assay of DH on HEK293/G α 15/ET_B and HEK293/G α 15/AT₁ cell lines. (A) Agonist assay of the HEK293/G α 15/ET_B cell line. DH showed no antagonism on ET_BR. **(B)** Agonist assay of DH on HEK293/G α 15/AT₁ cell line. DH showed no agonism on AT₁R.



Supplementary Figure 4: Specificity assay of DH on HEK293 cell line.



Supplementary Figure 5: Cell viability of hiPS-CMs incubated with DH. (A) ATP depletion of HEK293 cell line treated by DH. (B) Cell index of hiPS-CMs incubated with DH.