Inflammation leads through PGE/EP_3 signaling to HDAC5/MEF2-dependent transcription in cardiac myocytes

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Appendix Table S1 – Concentrations, descriptions and supporting references of the used compounds.

Compound (used concentration)	Description with reference
L798106 (200 nM)	Potent and highly selective EP_3 receptor antagonist (Ki values are 0.3, 916, > 5000 and > 5000 nM at EP_3, EP_4, EP_1 and EP_2 receptors, respectively) (Clarke et al, 2004; Juteau et al, 2001).
L161,982 (2 µM)	Potent and selective EP_4 receptor antagonist (Ki values are 32, 7100, 5800, 6100 nM for rat EP_4, EP_3, EP_2 and EP_1 receptors, respectively) (Balzary et al, 2006; Machwate et al, 2001).
AH6809 (10 µM)	EP_1 (pA2 = 6.8) and EP_2 (Ki = 350 nM) receptor antagonist (Kiriyama et al, 1997).
Bisindolylmaleimide I (3 µM)	Selective inhibitor of protein kinase C. IC_{50} values are 0.0084, 0.0180, 0.210, 0.132, and 5.8 µM for α, β1, δ, ε and ζ PKC isoforms, respectively (Jacobson et al, 1995; Martiny-Baron et al, 1993).
PTX (100 ng/ml)	Bacterial toxin that inhibits $G_{i/o}$ and G_t via catalyzation of ADP-ribosylation (Vettel et al, 2012).
NSC 23766 (100 µM)	Selective inhibitor of Rac1 activation by preventing Rac1-GEF (TrioN and Tiam1, IC_{50} ~ 50 µM) interaction (Gao et al, 2004; Levay et al, 2013; Vettel et al, 2012).
SQ 22536 (100 µM)	Cell-permeable adenylate cyclase inhibitor (Harris et al, 1979; Mittra et al, 2006).
AIP (1 µM)	Selective and potent CaMKII inhibitor (IC_{50}: 40 nM) (Ishida et al, 1995).
BPKDi (3 µM)	Selective inhibitor of the three PKD isoforms with low nanomolar potency but it failed to inhibit members of the CaMKII and MARK families or SIK1 and GRK5 (Haworth et al, 2012; Meredith et al, 2010; Monovich et al, 2010).
IPA-3 (30 µM)	A selective small-molecule inhibitor that targets the autoregulatory mechanism of group 1 PAKs (PAK1,2,3) and promotes their inactive conformation. Group 1 PAKs were shown to be inhibited at 10 µM (Deacon et al, 2008; Vettel et al, 2012).

Appendix Table S2 – The used primer sequences for quantitative real-time PCR

Gene		Primer sequence
IL6	sense	5´-gatggatgctaccaaactggat-3´
	antisense	5´-ccaggtagctatggtactccaga-3´
TNFα	sense	5´-ctgtagcccacgtcgtagc-3´
	antisense	5´-ttgagatccatgccgttg-3´
Nur77	sense	5´-tgttgatgttcctgcctttg-3´
	antisense	5´-ggaggccatgtcgatcag-3´
Myomaxin	sense	5´-tctcctagaggcgctgtcc-3´
	antisense	5´-tgcacaagtctgattcttccat-3
AdamTS1	sense	5´-aaaggcattggctacttctttg-3´
	antisense	5´-ggactacagggagtgccatc-3´
ANP	sense	5´-cacagatctgatggatttcaaga-3´
	antisense	5´-cctcatcttctaccggcatc-3´
BNP	sense	5´-gtcagtcgcttgggctft-3´
	antisense	5´-ccagagctggggaaagaag-3´
18S	sense	5´-gcaattattccccatgaacg-3´
	antisense	5´-gggacttaatcaacgcaagc-3´

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