SUPPORTING INFORMATION FOR

PROSTAGLANDIN E_2 INHIBITS TUMOR NECROSIS FACTOR-ALPHA RNA THROUGH PKA TYPE I

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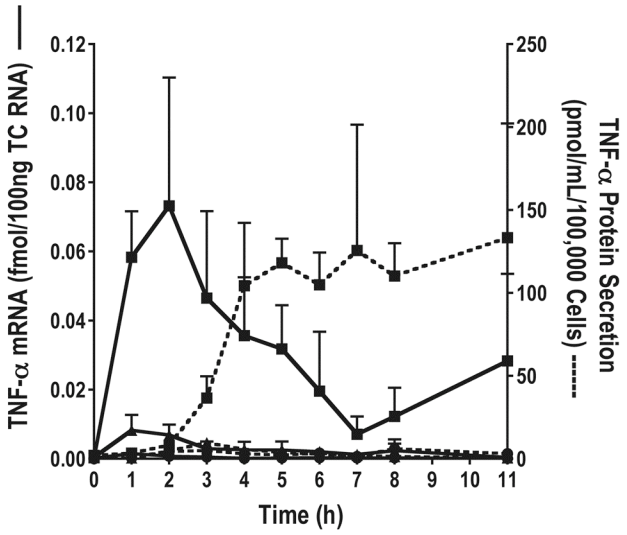

Figure S1: *PGE_2 and $cPGI_2$ inhibit TNF-α mRNA levels and biosynthesis*. A) Raw 264.7 macrophages were treated with 100 ng/mL LPS and 100 nM SC-560 and SC-236 in the presence of DMSO (vehicle, ■), 1 μM PGE_2 (▲) or 1 μM $cPGI_2$ (●). TNF-α mRNA (solid lines) was measured by Real-Time RT-PCR at 1 h intervals. TNF-α protein (dashed lines) in cell culture medium was measured by ELISA at 1 h intervals. B) Raw macrophages were treated with 1 μM Ionomycin in the presence of DMSO (■) or 1μM PGE_2 (▲). TNF-α mRNA was measured by Real-Time RT-PCR at 1 h intervals. C) Raw macrophages were infected with 200 HA units/mL Sendai virus in the presence of DMSO (■) or 1 μM PGE_2 (▲).TNF-α mRNA was measured by Real-Time RT-PCR every 1 h.

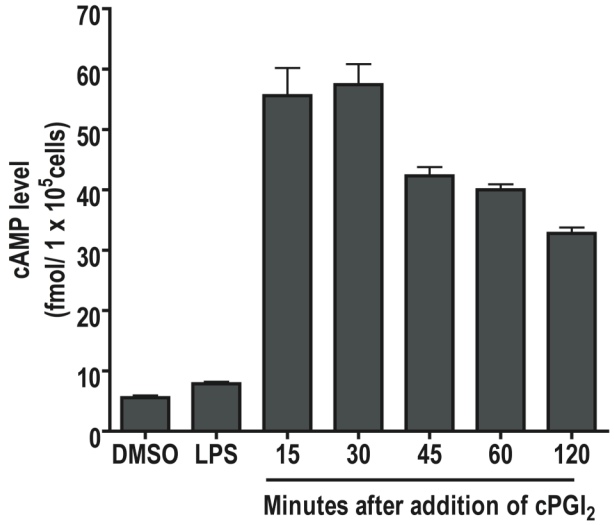

Figure S2: *$cPGI_2$ stimulates cAMP accumulation in Raw 264.7 macrophages.* Raw cells were treated with vehicle (DMSO) or 1 μg/mL LPS for 6 h. $cPGI_2$ was added to 6 h LPS pretreated cells and intracellular cAMP levels were measured by ELISA at intervals over the following 2 h.