Supplementary figure legends

**Supplementary figure 1**
Adult mice (12-wk-old males) were injected i.p. with DEX at 2 mg/kg. The COX-1, mPGES1, mPGES2, cPGES, PGIS, DP, and CRTH2 protein levels were determined by Western blotting.

**Supplementary figure 2**
Wild-type mice were subjected to ischemia (30 min). Quantification of intramyocardial prostaglandins was performed 10 min after the start of reoxygenation (n = 4, compared to sham-operated mice).

**Supplementary figure 3**
Plasma levels of prostaglandins were measured by ELISA 24 hrs after DEX administration (n=7, compared to vehicle treated mice).

**Supplementary figure 4**
Immunohistochemical analyses were performed using DEX-treated hearts subjected to ischemia-reperfusion injury. Figure showed infarct border zone. Green signal indicates L-PGDS, red signal indicates CD45. Blue signal indicates nucleus. Bar=20 µm.

**Supplementary figure 5**
Neonatal rat cardiomyocytes were transfected with control-, DP-, or CRTH2-siRNA. Reduction of these genes expression was confirmed by Q-PCR (P<0.05, n=3, compared to control siRNA-transfected cells).
Supplementary Figure 1

<table>
<thead>
<tr>
<th>Protein</th>
<th>control</th>
<th>DEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>COX-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>mPGES-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>mPGES-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cPGES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRTH2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Supplementary Figure 2

- **PGE$_2$**
  - Fold increase by ischemia: n.s.
  - (N=4) sham: 0, ischemia: 4

- **PGD$_2$**
  - Fold increase by ischemia: n.s.
  - (N=4) sham: 0, ischemia: 2

- **6-ketoPGF$_{1\alpha}$**
  - Fold increase by ischemia: n.s.
  - (N=4) sham: 0, ischemia: 2
Supplementary Figure 3

PGD$_2$

- Serum prostanoid levels (pg/ml)
  - n.s. (n=7)
  - DEX

PGE$_2$

- Serum prostanoid levels (pg/ml)
  - * (n=7, p<0.0001)
  - DEX

- (-) DEX
Supplementary Figure 4
Supplementary Figure 5

Fold change of gene expression

- **DP**
- **CRTH2**

**control-si**

**DP-si**

**CRTH2-si**

* *