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Supplemental Material

In Vitro Effects of the Endocrine Disruptor p,p'DDT on Human Follitropin Receptor

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Figure S1. Cell survival was measured by an MTT assay. Cells were incubated with p,p'DDT 5.10⁻⁶M or p,p'DDE 10⁻⁵M or o,p'DDT 10⁻⁵M or BPA 10⁻⁵M for 30, 60 or 120 min. At the end of the incubation time, MTT (0,5 mg/mL) was added. The formazan coloration at 570 nm was measured. The results are expressed as percentage of viability compared to cells in absence of p,p'DDE or o,p'DDT (means ± SEM of three independent experiments performed in triplicate).

Figure S2. Structure of molecules.

Figure S3. The mutants FSHR T3.32A, T3.32I, H7.42A, T3.32I-H7.42A and the WT transiently expressed in CHO cells. The cell surface expression was determined by flow cytometry. Cells were incubated for 30 min with a 1:10 mouse anti-FSHR antibody. Then they were washed once and incubated for 30 min with a 1:20 FITC-conjugated goat anti-mouse antibody. Flow cytometry measurements were performed on MACSQuant from Miltenyi Biotech (Bergish Gladbach, Deutschland). Expression of mutated receptors is given as a mean of fluorescence intensity (MFI). Cells were stimulated for 30 min with increasing FSH concentrations and the cAMP production measured.

Figure S4. Dose response curve of forskolin (FSK) on CHO or CHO-FSHR cells (means ± SEM of four independent experiments performed in triplicate). The cAMP concentration measured in presence of forskolin on CHO is arbitrarily set at 100%.

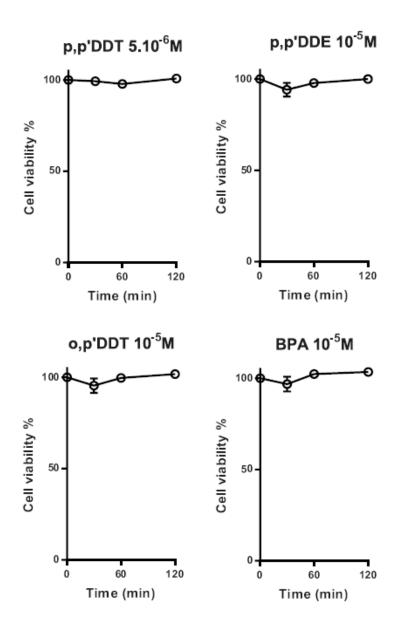


Figure S1

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Figure S2

Structure of molecules

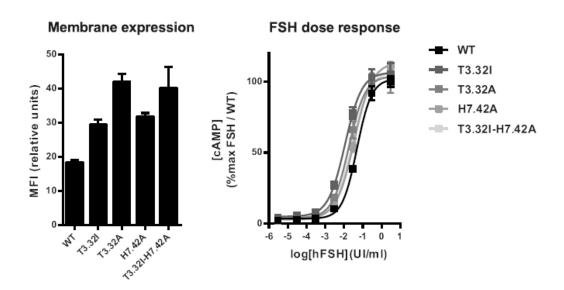


Figure S3

The mutants FSHR T3.32A, T3.32I, H7.42A, T3.32I-H7.42A and the WT transiently expressed in CHO cells. The cell surface expression was determined by flow cytometry. Cells were incubated for 30 min with a 1:10 mouse anti-FSHR antibody. Then they were washed once and incubated for 30 min with a 1:20 FITC-conjugated goat anti-mouse antibody. Flow cytometry measurements were performed on MACSQuant from Miltenyi Biotech (Bergish Gladbach, Deutschland). Expression of mutated receptors is given as a mean of fluorescence intensity (MFI). Cells were stimulated for 30 min with increasing FSH concentrations and the cAMP production measured.

Forskolin dose response

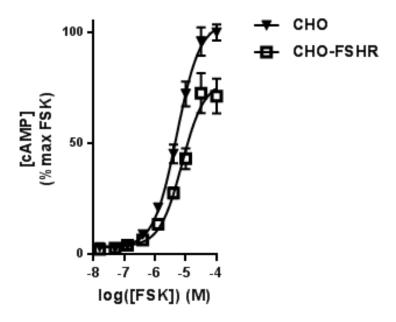


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Dose response curve of forskolin (FSK) on CHO or CHO-FSHR cells (means \pm SEM of four independent experiments performed in triplicate). The cAMP concentration measured in presence of forskolin on CHO is arbitrarily set at 100%.