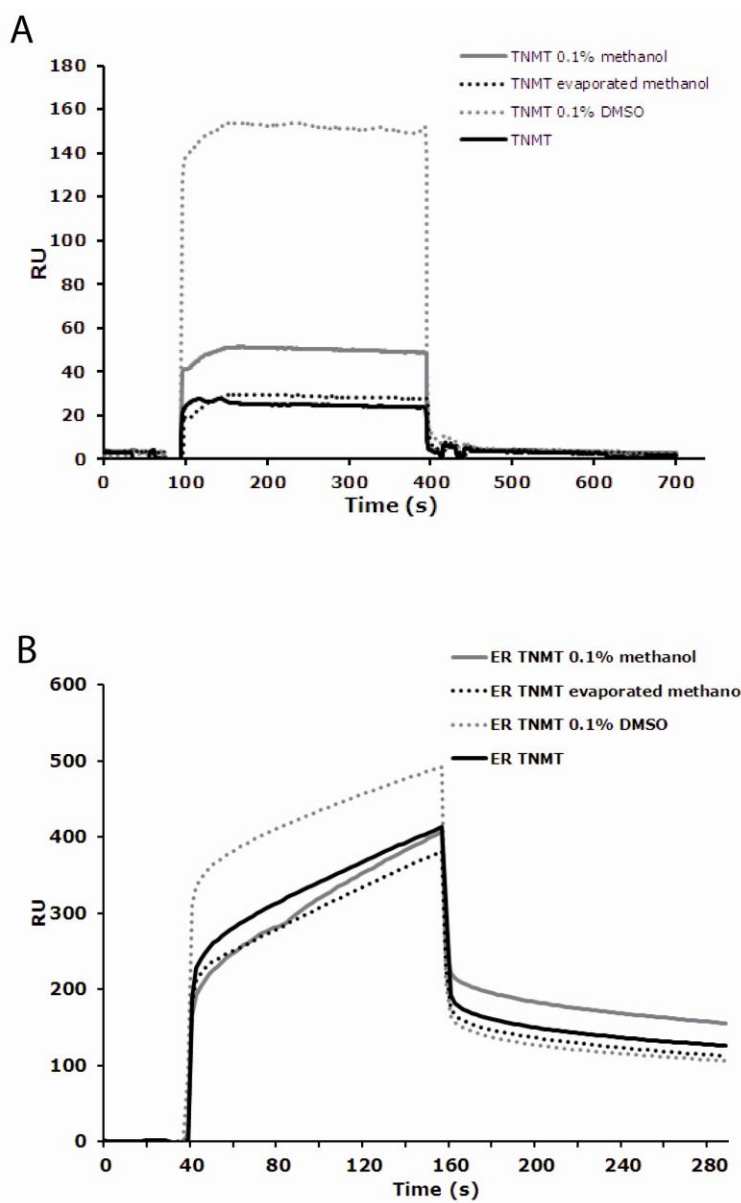


## Supplementary Data

Fig. S1

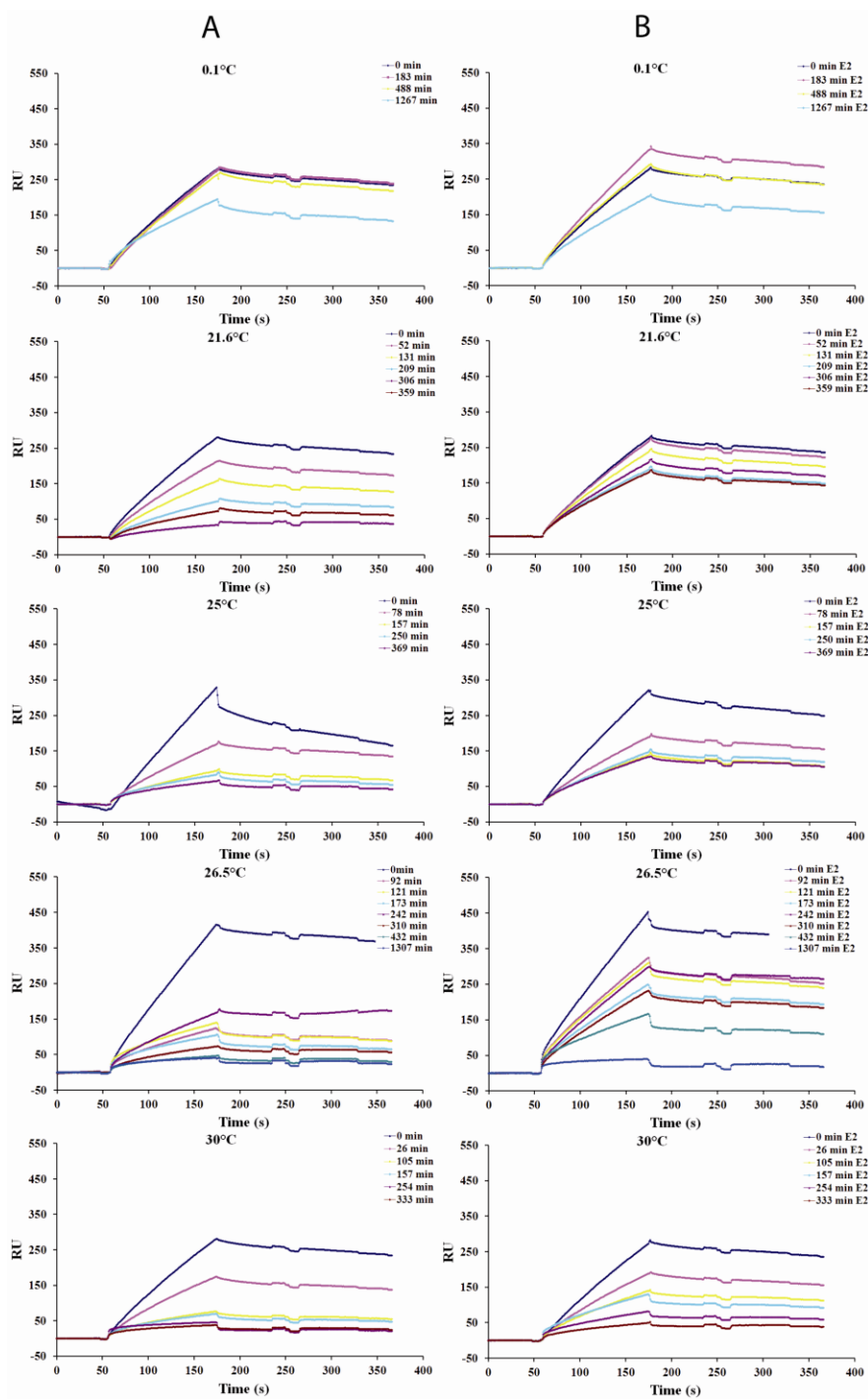


**Fig. S1: Impact of solvent in TNMT buffer on the SPR response.**

A: Sensorgrams obtained by injection of TNMT buffer alone or with 0.1% of methanol, with 0.1% of DMSO and with evaporated methanol were injected on a SA sensor chip.

B: Impact of solvent on ER-ERE interaction in the absence of E2. Sensorgrams obtained with the injection of 50 nM ER dissolved in different solvents: in TNMT buffer or with 0.1% of methanol, with 0.1% of DMSO and free solvent buffer (evaporated methanol).

**Fig. S2**

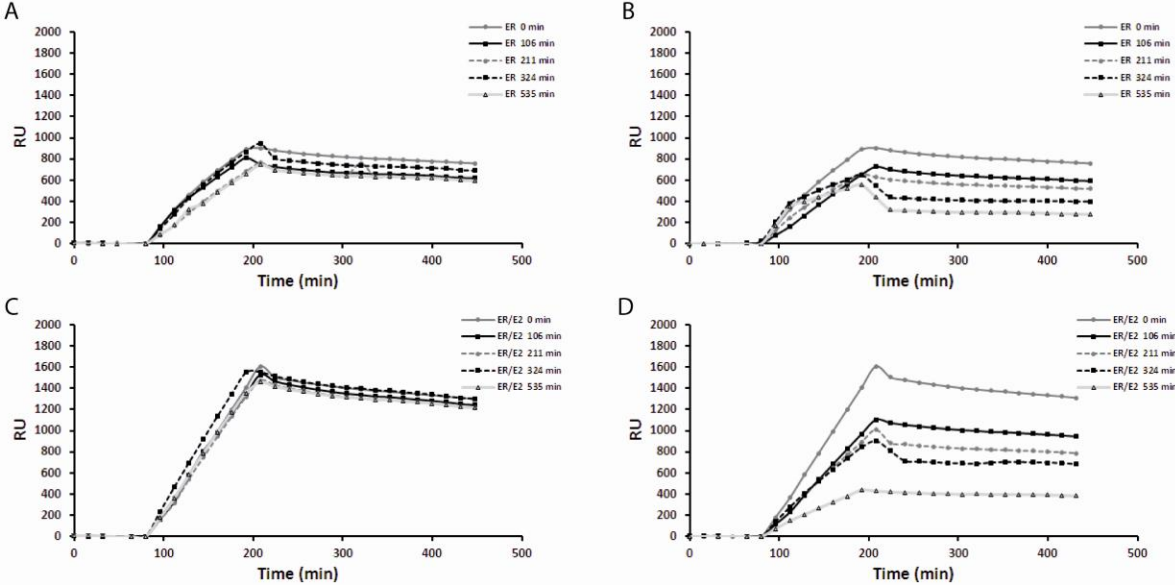


**Fig. S2: Impact of temperature and time on the dimer formation**

A: Sensorgrams obtained after the injection of 15 nM ER in the absence of E2 at different temperatures.

B: Sensorgrams obtained after the injection of 15 nM ER incubated with 100 nM E2 in 0.1% methanol -TNMT buffer at different temperatures.

**Fig. S3**



**Fig. S3: Sensograms illustrating the impact of temperature (4°C or 25°C) on ER binding reproducibility after an initial incubation overnight at 4°C (without or with E2 respectively A and C) and 25°C (without or with E2 respectively B and D).**