

Supporting Information S12 Fig. Changing the ratio between the lipids in system II. The POPC:POPE ratio in II is 1:1. We consider here a system (II_{1.2}) that is the same as II, except that the ratio of POPC:POPE is 1:1.2. For this system, we carry out 600 ns MD simulations. A) $C\alpha$ root-mean-square-deviations (RMSDs) of the receptor's $C\alpha$ atoms of II (red) and II_{1.2} (blue). B) MD-averaged density distribution of the phosphate groups (PO4-ED) in the two systems calculated over the 400ns-600ns interval. The color coding is the same as in A). The peak-to-peak distance, a measure of the bilayer thickness, is 4.0 and 3.9 for II_{1.2} and II, respectively. The RMSD matrices and the MD structures of the receptors in II_{1.2}, as collected in the 400ns-600ns interval, are very similar to those of II in the same interval (data not shown).