

## Assembly of cell-free synthesized ion channel molecules in artificial lipid bilayer observed by atomic force microscopy

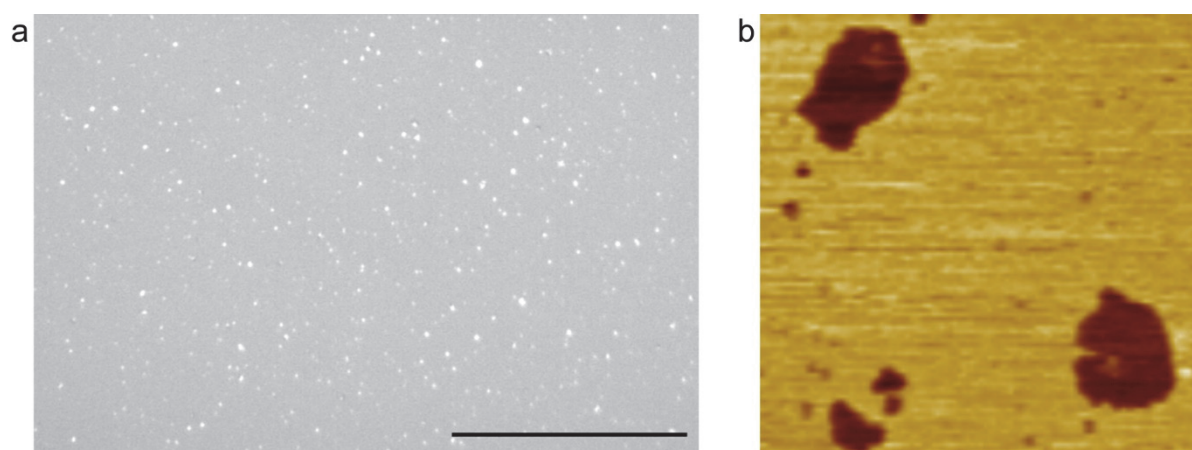
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### Morphology of SLB made from PC+PE+Chol-vesicles without hERG channel



**Figure S1.** (a) A fluorescence image (Scale bars = 50  $\mu\text{m}$ ) and (b) an AFM topography ( $2.0 \times 2.0 \mu\text{m}^2$ ) of the SLB prepared from PC+PE+Chol-vesicles that did not include the hERG channel. The PC+PE+Chol-vesicles contained 0.26 mol% of a dye-labeled lipid, dipalmitoylphosphatidylethanolamine-*N*-lissamine rhodamine B.

### Number of hERG channel oligomers

**Table S1.** The number of hERG channel oligomers observed in the AFM topographies of the PC+PE+Chol-SLB, including hERG channel molecules.

|        | Monomer | Dimer | Trimer | Tetramer |
|--------|---------|-------|--------|----------|
| Number | 122     | 41    | 7      | 3        |