**Figure 4 - source data 6. Shift in dimer equilibrium upon fusion with DL containing vesicles.** CLC-ec1-Cy5 proteoliposomes (0.2 μg/mg) in 100% PO, 2:1 PE/PG were either (A) unmodified, (B) fused with 100% PO 2:1 PE/PG liposomes or (C) fused with 40% DL, 60% PO 2:1 PE/PG liposomes by multiple freeze-thaw cycles. Data represented as mean ± sem, n = 3 independent samples. P-values are calculated using a two-tailed student's t-test on the *P1* photobleaching data, and using the 𝜒2 test on the (*P1,P2,P3+*) photobleaching probability distributions, designated in brackets (\*, *P* < .05; \*\*, *P* < .01).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **PCy5** | **incubation time (d)** | **P1** | **P2** | **P3+** | ***P*-value**  |
| A: 0% DL, 0.2 μg/mg | 0.69 ± 0.01  | 4.7 ± 0.7 | 0.39 ± 0.02 | 0.34 ± 0.02 | 0.27 ± 0.04 |  |
| 14.3 ± 0.3 | 0.37 ± 0.03 | 0.35 ± 0.01 | 0.27 ± 0.03 |  |
| B: 1:1 dilution of A with 0% DL | 4.7 ± 0.7 | 0.44 ± 0.01 | 0.31 ± 0.00 | 0.24 ± 0.01 | ns, *PAB* = 0.06(ns, *PAB* = 0.59)  |
| 14.3 ± 0.3 | 0.36 ± 0.08 | 0.34 ± 0.03 | 0.30 ± 0.05 | ns, *PAB* = 0.87(ns, *PAB* = 0.80) |
| C: 1:1 dilution of A with 40% DL | 4.7 ± 0.7 | 0.52 ± 0.02 | 0.27 ± 0.01 | 0.21 ± 0.01 | \*\*, *PAC* = 0.007\*, *PBC* = 0.02(\*, *PAC* = 0.03 ns, *PBC* = 0.28) |
| 14.3 ± 0.3 | 0.49 ± 0.04 | 0.28 ± 0.02 | 0.23 ± 0.02 | ns, *PAC* = 0.07ns, *P*BC = 0.20(\*, *PAC* = 0.05\*, *PBC* = 0.03) |