



Figure 1: Feasibility of structure determination of PLC β enzymes bound to liposomes using the PLC β -G $\beta\gamma$ -G α_q complex as an example. Adapted from Falzone and MacKinnon, 2024 *PNAS* (A) Representative micrograph of the vesicle-associated PLC β -G $\beta\gamma$ -G α_q complex. (B) Representative 2D class averages. (C) Final reconstruction of complex and membrane density. (D) chemical structure of PIP2 (left) and commercially available, non-hydrolysable analogue.

Falzone, M. E. & MacKinnon, R. The mechanism of G α_q regulation of PLC β 3-catalyzed PIP2 hydrolysis. *Proceedings of the National Academy of Sciences* **120**, e2315011120 (2023). <https://doi.org/10.1073/pnas.2315011120>