Fig S6

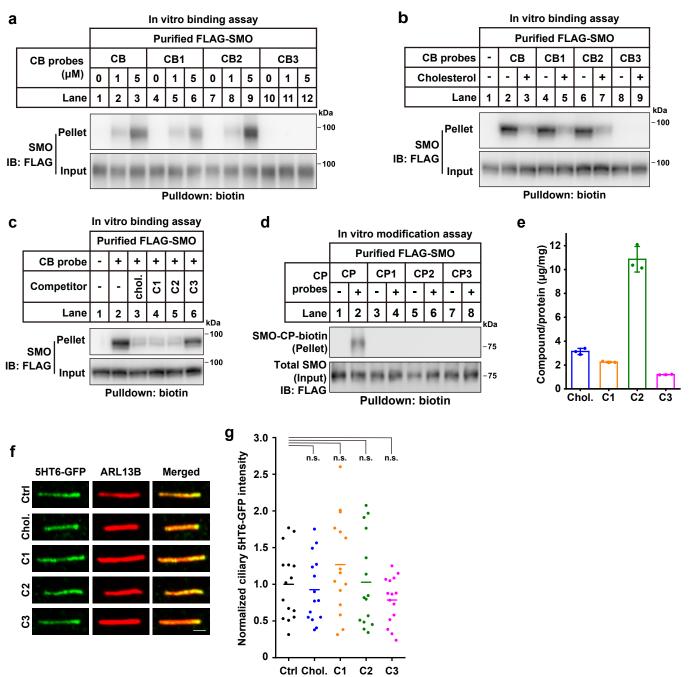


Fig. S6. In vitro binding of full-length SMO with CB probes.

a. *In vitro* binding of the purified full-length FLAG-tagged SMO protein with CB probes.

b. Cholesterol competed off the interactions of SMO with CB probes.

c. Free cholesterol, C1 and C2 competed off the interactions of SMO with CB.

d. *In vitro* modification of SMO by CP, but not by other azide derivatives of cholesterol analogs.

e. Cellular uptake of indicated compounds in complex with M β CD. NIH3T3 cells were treated with 50 μ M of indicated compounds for 4 h. Cellular lipids were extracted and subjected to UPLC-MS/MS analysis. To discriminate exogenous added cholesterol and endogenous cholesterol, hepta-deuterium-labeled cholesterol (cholesterol-d7) was used to treat cells.

f. Treatment with cholesterol, or C1-C3 did not affect ciliary trafficking of 5HT6-GFP. NIH3T3 cells expressing 5HT6-GFP were treated with 50 μ M of indicated compounds in complex with M β CD for 2 hours, fixed with paraformaldehyde and stained with ARL13B antibody. Control group was treated with M β CD only. Bar=1 μ m.

g. Quantification of ciliary 5HT6-GFP intensity in **f**. Horizontal lines denote mean values. n=15. p=0.9967, 0.7058, 0.9885 and 0.9965 (from left to right). Two-sample T-test.