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Insight into TSC protein complex function in the regulation of cell growth from structural biology

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The TSC complex is a tumor suppressor regulating cellular growth. We investigated the structure of the TSC1 subunit and identified a coiled-coil domain that binds TSC2, a central helical domain that mediates oligomerization of TSC1 and an N-terminal domain that binds to lipids via a basic interface. These findings reveal a role of TSC1 in by mediating TSC complex membrane recruitment and suggest a function in the formation of TSC supercomplexes.

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