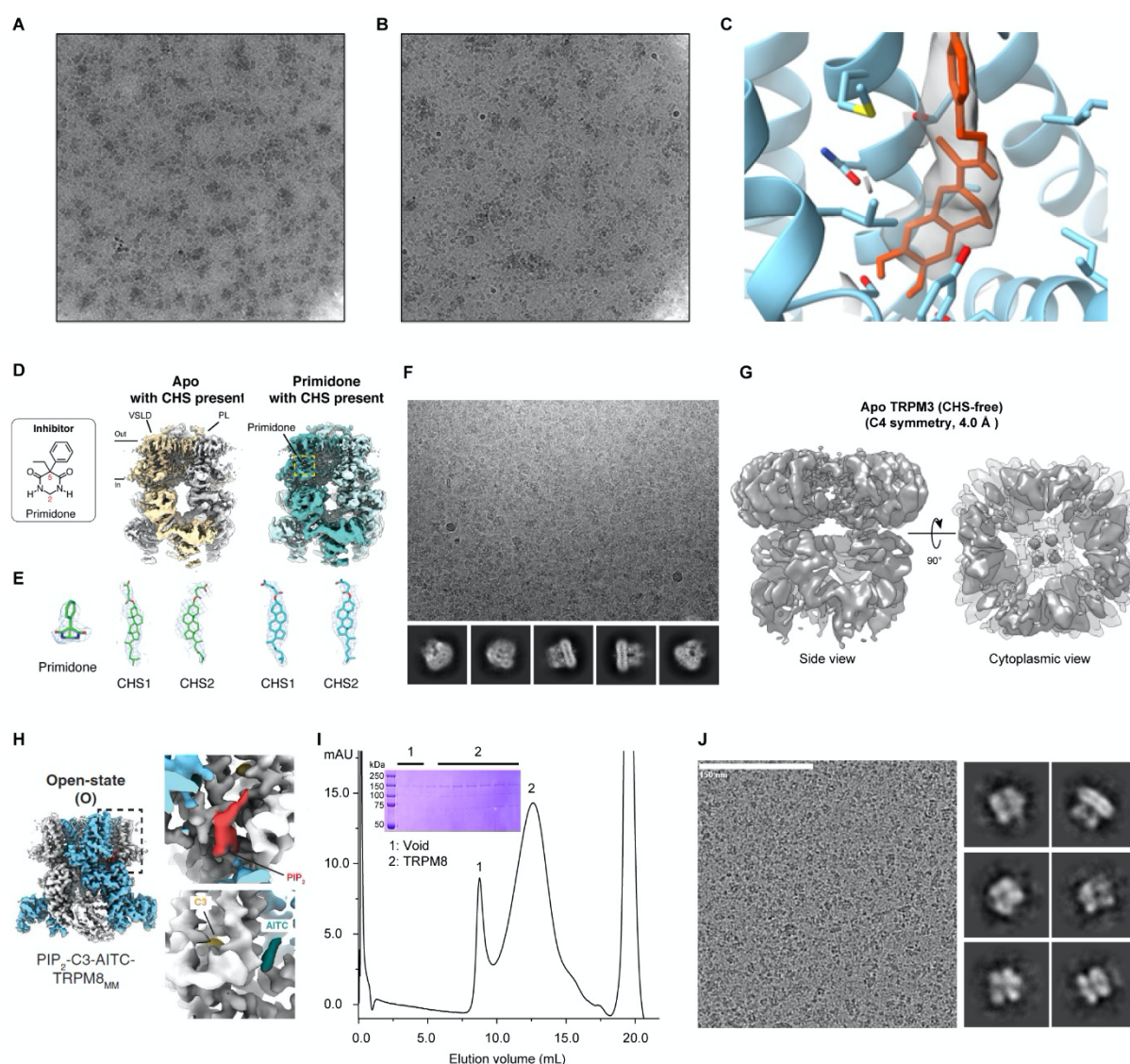


Figures/Preliminary Data Results (max 1 page PDF)



(A and B) Representative cryo-EM micrographs of TRPV1 WT nanodisc with capsazepine at 48° C. Pixel sizes are 1.2 Å.

(C) Close-up view of capsazepine in the vanilloid pocket of TRPV1 at 48°C. The cryo-EM density is shown at 0.023 thresholding.

(D) Chemical structure of the ligand used for the complex structure with TRPM3 (left), 3D reconstructions of TRPM3 in apo state (middle) and inhibitor-bound state (right).

(E) Cryo-EM densities for the bound ligands in TRPM3 structures.

(F) Representative raw micrograph (top) and 2D class averages (bottom) of apo TRPM3 in the absence of CHS. Pixel size is 1.22 Å.

(G) 3D reconstruction of apo TRPM3 in the absence of CHS.

(H) 3D reconstruction of TRPM8 in complex with PIP₂, C3, and AITC (left), close-up view of the EM densities for PIP₂ (red), C3 (yellow), AITC (teal) from the dashed box in the O state.

(I) Gel filtration chromatogram and SDS-PAGE image (inset) of TRPM8.

(J) Representative raw micrograph (left) and 2D class averages (right) of TRPM8 in complex with menthol. Pixel size is 0.93 Å.