

Figure 1. Cryo-EM for GluA2-STZ in the partially activated state. a, Example of cryo-EM micrograph. **b,** 2D class averages. **c,** 3D reconstruction of one of partially activated states at 3.99 Å resolution.

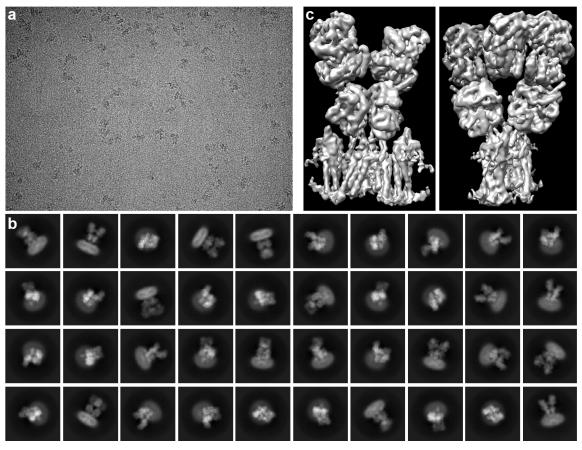


Figure 2. Cryo-EM for GluA2-GSG1L in the desensitized state. a, Example of cryo-EM micrograph. **b,** 2D class averages. **c,** 3D reconstruction at 4.2 Å resolution.

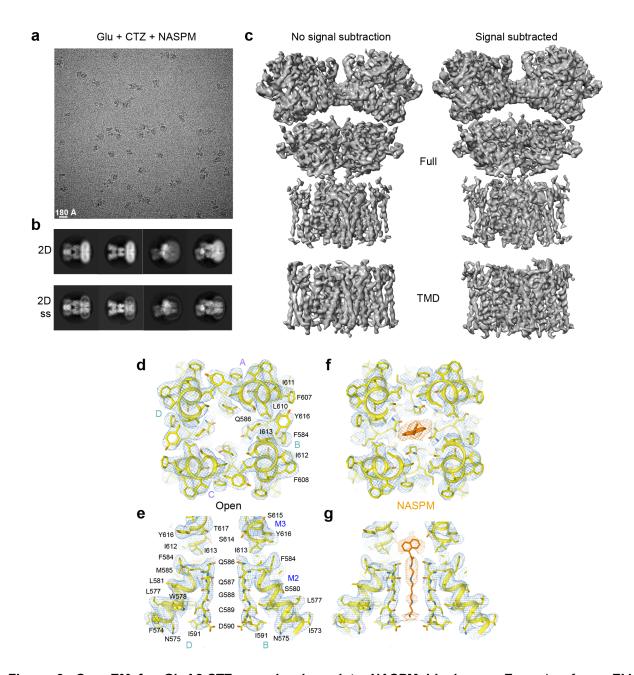


Figure 3. Cryo-EM for GluA2-STZ complex bound to NASPM blocker. a, Example of cryo-EM micrograph. b, 2D and 2D-ss (after micelle signal subtraction) class averages. c, 3D reconstructions for full-length structure refinement (first row) and TMD-directed refinement (second row) before (left) and after (right) micelle signal subtraction. d-g, Cryo-EM densities after micelle signal subtraction and focused TMD refinement for $GluA2Q-STZ_{Open}$ (d-e) and $GluA2Q-STZ_{NASPM}$ (f-g) viewed extracellularly (top row; d,f) and parallel to the membrane, with the extracellular side up (bottom row; e,g). Only two of four GluA2 subunits are shown in e and g, with the front and back subunits removed for clarity. Protein density is shown as a blue mesh. The blocker NASPM and the corresponding density for it are colored orange.