

Fig. S8 Structure determination of ALMT1_{Al/pH5}.

a, Size-exclusion chromatography of AtALMT1 in 1 mM AlCl₃ at pH 5 on Superose 6 (GE Healthcare), and SDS-PAGE image of the final protein sample. **b,** Representative cryo-EM micrograph of ALMT1_{Al/pH5}. **c,** Flowchart of image processing for ALMT1_{Al/pH5} particles. **d,** The density map of ALMT1_{Al/pH5} colored by local resolution in Å. **e,** The Gold standard Fourier Shell Correlation (FSC) curve of the final 3D reconstruction of ALMT1_{Al/pH5}, and the FSC curve for cross-validation between the map and the model of ALMT1_{Al/pH5}. **f,** Sample maps at the 13 helices from ALMT1_{Al/pH5} at the contour level of 4 σ.