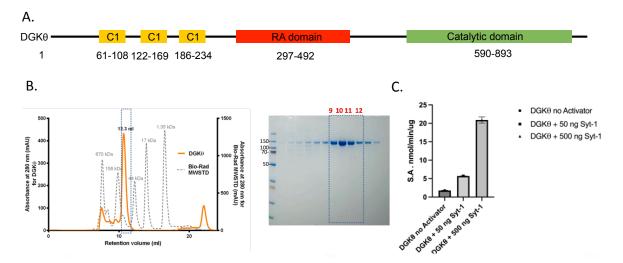
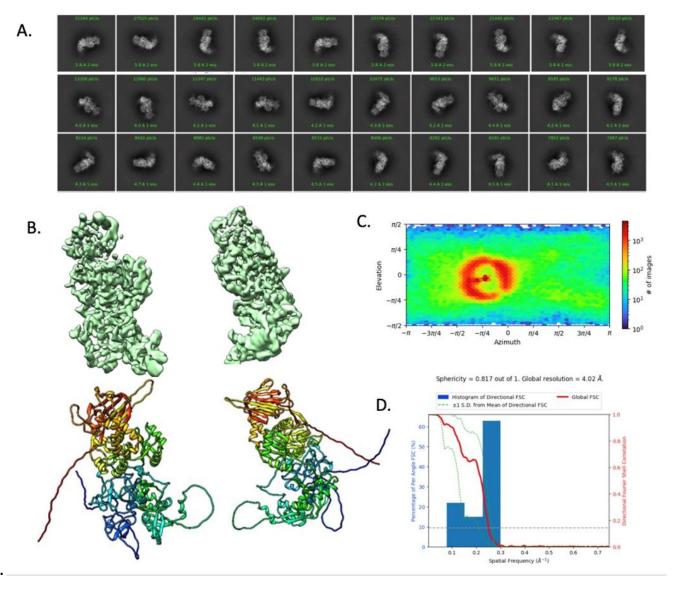
Figure 1.



**Figure 1. A.** Structure basis of the DGK  $\theta$ . **B.** Gel filtration profile and SDS-PAGE of DGK  $\theta$ . **C.** Kinase activity assays of DGK  $\theta$  with and without neuronal activator.

Figure 2.



**Figure 2**. cryoEM data processing of DGK $\theta$ . **A.** Representative 2D class average. **B.** 3D reconstruction of DGK $\theta$  compared to alphafold prediction. **C.** View direction distribution **D**. 3DFSC of DGK $\theta$