



Figure 1. Structural characterization of selenos and the p97 ATPase. A) Representation of p97 hexamer (PDB: 5FTN) colored by the three different domains. B) AlphaFold2 prediction of selenos as a monomer with the two soluble regions of interest highlighted by an arrow. C) The 2D classes used for reconstruction. D) A representative micrograph acquired on the Krios microscope at NCCAT. E) Example of the cryo-EM density map of selenos (1-123) bound to p97, showing p97 colored in magenta, purple, and red and the density corresponding to selenos in gray. The electron density above the p97 hexamer is due to the hydrophobic segment of selenos in micelles.