

Table S1. AdeJ cryo-EM data collection and refinement statistics.

Data collection		
Magnification	81,000	
Voltage (kV)	300	
Electron Microscope	Krios-GIF-K3	
Defocus (um)	-1.0 to -2.5	
Total exposure time (s)	2	
Energy filter width (eV)	20	
Pixel size (Å)	1.08 (0.54)	
Total dose (e ⁻ / Å ²)	36	
Number of frames	40	
Number of micrographs	3,023	
Initial particle images (no.)	2,665,397	
Refinement	Apo-AdeJ	AdeJ-Era
Total Particles (no.)	83,768	95,451
Symmetry	C1	C1
GS-FSC ^a Resolution (0.143, Å)	2.87	2.86
Model composition		
Protein residues	3,142	3,142
Ligands	8	9
r.m.s.d.		
Bond lengths (Å)	0.010	0.011
Bond angles (°)	0.996	1.074
Validation	Apo-AdeJ	AdeJ-Era
MolProbity score	1.70	1.70
Clash score	5.37	5.82
Ramachandran plot		
Favored (%)	97.54	97.10
Allowed (%)	2.39	2.87
Disallowed (%)	0.06	0.03
CC ^b Mask	0.72	0.72

^aGold-Standard Fourier Shell Correlation^bCorrelation Coefficient