Summary of integrative structure determination of Human elongation factor 1 complex (PDB ID: 9A9S | pdb_00009a9s)

1. Model Composition	
1.1. Entry composition	- Elongation factor 1-gamma: chain(s) A (437 residues) - Elongation factor 1-alpha 1: chain(s) B (462 residues) - Elongation factor 1-beta: chain(s) C (97 residues) - Elongation factor 1-delta: chain(s) D (93 residues)
1.2. Datasets used for modeling	- Crosslinking-MS data, PRIDE: PXD047554 - De Novo model, AlphaFoldDB: AF-P26641-F1 - De Novo model, AlphaFoldDB: AF-P68104-F1 - De Novo model, AlphaFoldDB: AF-P24534-F1 - De Novo model, AlphaFoldDB: AF-P29692-F1
2. Representation	
2.1. Number of representations	1
2.2. Scale	Atomic
2.3. Number of rigid and flexible segments	0, 4
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 1 unique CrossLinkRestraint: TDS, 1 crosslinks
4. Validation	
4.2. Number of ensembles	0
4.3. Number of models in ensembles	Not applicable
4.4. Number of deposited models	1
4.5. Model precision	Not available
4.6. Data quality	Data quality has not been assessed
4.7. Model quality: assessment of atomic segments	- Clashscore: 13.39 - Ramachandran outliers: 32 - Sidechain outliers: 39
4.8. Fit to data used for modeling	Satisfaction of crosslinks: 0.00%
4.9. Fit to data used for validation	Fit of model to information not used to compute it has not been determined
5. Methodology and Software	
1. 5.1. Method name	Sampling

5.2. Method type	Monte Carlo simulated annealing
5.3. Method description	The structure of the complex consisting of four protein subunits was modeled using the four protein monomer structures generated by AlphaFold2 as the initial structures, with intracellular crosslinking mass spectrometry data as constraints, and employing a rigid body refinement structural strategy.
5.5. Software	Xplor-NIH (version 2.53)