

Summary of integrative structure determination of Integrative structure of the XcpGHIJK pseudo pilus filament model of a type II secretion system (PDB ID: 9A1F | pdb_00009a1f, PDB-Dev ID: PDBDEV_00000087)

1. Model Composition	
1.1. Entry composition	- XcpG: chain(s) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P (134 residues) - XcpH: chain(s) Q (161 residues) - XcpI: chain(s) R (120 residues) - XcpJ: chain(s) S (199 residues) - XcpK: chain(s) T (309 residues)
1.2. Datasets used for modeling	- Experimental model, PDB: pdb_00005vtm - NMR data, BMRB: 50449 - Crosslinking-MS data, MASSIVE: MSV000086915 - Comparative model, Not available - Experimental model, PDB: pdb_00002qv8 - Experimental model, PDB: pdb_00002kep - Integrative model, PDB: pdb_00009a1e
2. Representation	
2.1. Number of representations	1
2.2. Scale	Atomic
2.3. Number of rigid and flexible segments	40, 0
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 1 unique CrossLinkRestraint: ADH, 14 crosslinks - 25 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 6.0-18.0
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: 0.00 - Ramachandran outliers: 19 - Sidechain outliers: 13
4.8. Fit to data used for modeling	Satisfaction of crosslinks: 7.14%

<i>4.9. Fit to data used for validation</i>	Fit of model to information not used to compute it has not been determined
5. Methodology and Software	
1. <i>5.1. Method name</i>	Docking
<i>5.2. Method type</i>	HADDOCK
<i>5.4. Number of computed models</i>	1000
2. <i>5.1. Method name</i>	Helix models
<i>5.2. Method type</i>	Homology modeling
3. <i>5.1. Method name</i>	Add helices
<i>5.2. Method type</i>	Manual modeling
4. <i>5.1. Method name</i>	Modeling Helices
<i>5.2. Method type</i>	Semi-Manual modeling
<i>5.4. Number of computed models</i>	300
5. <i>5.1. Method name</i>	Create XcpG filament
<i>5.2. Method type</i>	Manual modeling
6. <i>5.1. Method name</i>	Minimize filament
<i>5.2. Method type</i>	Minimization
<i>5.4. Number of computed models</i>	10
<i>5.5. Software</i>	- Pymol (version Not available) - Haddock (version Not available) - Python (version Not available) - pyRosetta (version Not available) - Phyre2 (version Not available)