

Summary of integrative structure determination of Encounter complex in the cross-modular condensation step of the Tomaymycin NRPS system: complex of the substrate-loaded peptidyl-carrier-protein domain from the TomA module (APCP-load) with the adaptor (BN91) of the TomB module (PDB ID: 9A83 | [pdb_00009a83](#), PDB-Dev ID: PDBDEV_00000368)

1. Model Composition	
1.1. Entry composition	- Adaptor BN91 domain of Tomaymycin B module : chain(s) A (73 residues) - Substrate-loaded form of the peptidyl-carrier-protein (APCP) domain of the Tomaymycin A module: chain(s) B (72 residues)
1.2. Datasets used for modeling	- NMR data, Not available - Experimental model, PDB: pdb_00008qsx - Experimental model, PDB: pdb_00008qrx
2. Representation	
2.1. Number of representations	1
2.2. Scale	Atomic
2.3. Number of rigid and flexible segments	0, 2
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 171 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 0.0-2.0
4. Validation	
4.2. Number of ensembles	1
4.3. Number of models in ensembles	10
4.4. Number of deposited models	10
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: 14.29-19.82 - Ramachandran outliers: 0-2 - Sidechain outliers: 15-23
4.8. Fit to data used for modeling	Fit of model to information used to compute it has not been determined
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	Not available
5.2. Method type	Data-driven docking using CSP-derived distance restraints within HADDOCK.
5.3. Method description	Data-driven docking using CSP-derived distance restraints within HADDOCK.
5.5. Software	HADDOCK (version 2.4)