

Summary of integrative structure determination of Rosetta docking models of human KCNQ1 channel with KCNE1 auxiliary protein (PDB ID: 9A06 | pdb_00009a06, PDB-Dev ID: PDBDEV_00000042)

1. Model Composition	
1.1. Entry composition	- KCNQ1 channel-forming domain: chain(s) A, B, C, D (267 residues) - KCNE1 transmembrane domain: chain(s) E, F (35 residues)
1.2. Datasets used for modeling	- Comparative model, Zenodo: 10.5281/zenodo.3598943 - Comparative model, Zenodo: 10.5281/zenodo.3598943 - Comparative model, Zenodo: 10.5281/zenodo.3598943 - Crosslinking-MS data, Zenodo: 10.5281/zenodo.3598943 - Mutagenesis data, Zenodo: 10.5281/zenodo.3598943 - Crosslinking-MS data, Zenodo: 10.5281/zenodo.3598943 - Mutagenesis data, Zenodo: 10.5281/zenodo.3598943 - Experimental model, PDB: pdb_00005vms - Experimental model, PDB: pdb_00002r9r - Experimental model, PDB: pdb_00002k21 - Experimental model, PDB: pdb_00004g7y - Experimental model, PDB: pdb_00005dqq
2. Representation	
2.1. Number of representations	2
2.2. Scale	- Atomic - Atomic
2.3. Number of rigid and flexible segments	- 0, 6 - 0, 6
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 1 unique CrossLinkRestraint: CYS, 17 crosslinks - 1 unique CrossLinkRestraint: CYS, 2 crosslinks - 6 unique DerivedDistanceRestraint: Upper Bound Distance: 12.0 - 3 unique DerivedDistanceRestraint: Upper Bound Distance: 15.0
4. Validation	
4.2. Number of ensembles	0
4.3. Number of models in ensembles	Not applicable
4.4. Number of deposited models	2
4.5. Model precision	Not available

<i>4.6. Data quality</i>	Data quality has not been assessed
<i>4.7. Model quality: assessment of atomic segments</i>	- Clashscore: 0.00-0.00 - Ramachandran outliers: 2-11 - Sidechain outliers: 0-0
<i>4.8. Fit to data used for modeling</i>	Satisfaction of crosslinks: 68.42-84.21%
<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>	RosettaDock
<i>5.4. Number of computed models</i>	40000
<i>5.5. Software</i>	Rosetta (version 3.10)