

Summary of integrative structure determination of The HCN Channel Voltage Sensor Undergoes A Large Downward Motion During Hyperpolarization (PDB ID: 8ZZW | pdb_00008zzw, PDB-Dev ID: PDBDEV_00000032)

1. Model Composition	
1.1. Entry composition	HCN Voltage Gated Ion Channel: chain(s) 1, 2, 3, 4 (767 residues)
1.2. Datasets used for modeling	<ul style="list-style-type: none"> - Comparative model, Not available - Single molecule FRET data, Zenodo: 10.5281/zenodo.3066494 - Single molecule FRET data, Zenodo: 10.5281/zenodo.3066494 - Experimental model, PDB: pdb_00005u6o
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	<ul style="list-style-type: none"> - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 23.9-24.9 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 22.2-23.2 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 17.9-18.9 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 13.8-14.8 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 19.0-20.0 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 12.2-13.2 - 2 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 16.4-17.4 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 14.2-15.2 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 13.0-14.0
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

4.6. Data quality	Data quality has not been assessed
4.7. Model quality: assessment of atomic segments	- Clashscore: 0.00-0.00 - Ramachandran outliers: 0-0 - Sidechain outliers: 0-0
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	Rosetta Relax
5.5. Software	- Rosetta (version Rosetta version unknown:5f5eba092eb978ce62ba80b58d7d04cf6a6f9727) - HHpred (version website)