

Summary of integrative structure determination of Man9 fully-glycosylated model of mouse N-cadherin EC1-EC5 (PDB ID: 9A48 | pdb_00009a48, PDB-Dev ID: PDBDEV_00000229)

1. Model Composition	
1.1. Entry composition	- Cadherin-2: chain(s) A, B (541 residues) - alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose: chain(s) C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R
1.2. Datasets used for modeling	- SAS data, SASBDB: SASDT35 - Experimental model, PDB: pdb_00003q2w
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	- 1 unique SASRestraint: Assembly name: Man9 fully-glycosylated model of mouse N-cadherin EC1-EC5 - Fitting method: GASBOR Multi-state: True
4. Validation	
4.2. Number of ensembles	1
4.3. Number of models in ensembles	20
4.4. Number of deposited models	20
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: 8.62-29.64 - Ramachandran outliers: 6-6 - Sidechain outliers: 70-70
4.8. Fit to data used for modeling	Fit of model to information used to compute it has not been determined

<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>	Not available
<i>5.2. Method type</i>	Use GlycoSHIELD, the tool we have developed, to graft MD-simulated glycan ensemble onto the x-ray protein structure (PDB ID: 3Q2W).
<i>5.3. Method description</i>	The starting model is the same x-ray diffraction data mentioned in the input datasets. PDB id: 3Q2W
<i>5.4. Number of computed models</i>	20
<i>5.5. Software</i>	- GlycoSHIELD (version Not available) - GASBOR (version Not available) - FoXSDock (version Not available)