

Summary of integrative structure determination of Docking model of HLA class I with HLA class II (PDB ID: 9A0U | pdb_00009a0u, PDB-Dev ID: PDBDEV_00000066)

1. Model Composition	
1.1. Entry composition	<ul style="list-style-type: none"> - CLASS I HISTOCOMPATIBILITY ANTIGEN (HLA-A*0201) (ALPHA CHAIN): chain(s) A (275 residues) - BETA 2-MICROGLOBULIN: chain(s) B (100 residues) - INFLUENZA A MATRIX PROTEIN M1 (RESIDUES 58-66): chain(s) C (9 residues) - GLY residue: chain(s) D, H (1 residues) - HLA class II histocompatibility antigen, DR alpha chain: chain(s) E (179 residues) - HLA class II histocompatibility antigen, DRB1-4 beta chain: chain(s) F (193 residues) - Alpha-enolase: chain(s) G (14 residues)
1.2. Datasets used for modeling	<ul style="list-style-type: none"> - Experimental model, PDB: pdb_00001hhi - Experimental model, PDB: pdb_00005ni9 - Crosslinking-MS data, PRIDE: PXD022675 - Other, Not available - Other, Not available
2. Representation	
2.1. Number of representations	1
2.2. Scale	Atomic
2.3. Number of rigid and flexible segments	8, 0
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 CrossLinkRestraint: DSSO, 13 crosslinks - 1 unique DerivedDistanceRestraint: Upper Bound Distance: 73.0 - 14107 unique DerivedDistanceRestraint: Upper Bound Distance: 2.0
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	<ul style="list-style-type: none"> - Clashscore: 9.80-10.53 - Ramachandran outliers: 2-3 - Sidechain outliers: 45-50

4.8. Fit to data used for modeling	Satisfaction of crosslinks: 61.54-69.23%
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	Rigid-body minimization
5.2. Method type	Rigid-body minimization in HADDOCK (it0)
5.4. Number of computed models	1000
2. 5.1. Method name	Simulated annealing
5.2. Method type	Semi-flexible SA in HADDOCK (it1)
5.4. Number of computed models	200
3. 5.1. Method name	Refinement
5.2. Method type	Water refinement in HADDOCK (itw)
5.4. Number of computed models	200
5.5. Software	Haddock (version 2.2)