

Summary of integrative structure determination of Multicomplex Integrative Structural Modeling of a Human Histone Deacetylase Interactome (PDB ID: 9AAX | pdb_00009aax)

1. Model Composition	
1.1. Entry composition	- Histone deacetylase 1: chain(s) A (482 residues) - Methyl-CpG-binding protein 3: chain(s) B (291 residues) - Metastasis-associated protein 1: chain(s) C (715 residues) - GATA zinc finger domain-containing protein 2B: chain(s) D (593 residues) - Retinoblastoma-binding protein 4: chain(s) E (425 residues)
1.2. Datasets used for modeling	- De Novo model, Zenodo: 10.5281/zenodo.21811900 - De Novo model, Zenodo: 10.5281/zenodo.21811900 - De Novo model, Zenodo: 10.5281/zenodo.21811900 - De Novo model, Zenodo: 10.5281/zenodo.21811900 - De Novo model, Zenodo: 10.5281/zenodo.21811900 - Crosslinking-MS data, ProteomeXchange: PXD082280 - Mass Spectrometry data, MASSIVE: MSV000102752
2. Representation	
2.1. Number of representations	1
2.2. Scale	Atomic
2.3. Number of rigid and flexible segments	5, 0
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 1 unique CrossLinkRestraint: DSSO, 47 crosslinks
4. Validation	
4.2. Number of ensembles	0
4.3. Number of models in ensembles	Not applicable
4.4. Number of deposited models	1
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 - Ramachandran outliers: 11 - Sidechain outliers: 34
4.8. Fit to data used for modeling	Satisfaction of crosslinks: 82.98%

<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>	Context dependent 3D structural prediction with AlphaFold3
2. <i>5.1. Method name</i>	Not available
<i>5.2. Method type</i>	XL-MS-guided assembly using HADDOCK
<i>5.5. Software</i>	- AlphaFold3 (version 3.0) - HADDOCK (version 2.5)