

Summary of integrative structure determination of Integrative structure of the human MHR complex (PDB ID: 9A2B, PDB-Dev ID: PDBDEV_00000154)

1. Model Composition	
Entry composition	<ul style="list-style-type: none"> - HDAC1: Chain D (482 residues) - MTA1: Chain A (715 residues) - MTA1: Chain B (715 residues) - RBBP4: Chain G (425 residues) - RBBP4: Chain H (425 residues) - RBBP4: Chain F (425 residues) - RBBP4: Chain E (425 residues) - HDAC1: Chain C (482 residues)
Datasets used for modeling	<ul style="list-style-type: none"> - Crosslinking-MS data, Linker name and number of cross-links: ADH, 17 cross-links - Crosslinking-MS data, Linker name and number of cross-links: BS3, 314 cross-links - Crosslinking-MS data, Linker name and number of cross-links: Other, 30 cross-links - Comparative model, template PDB ID: Not available - De Novo model, File: 10.5281/zenodo.6674232 - Comparative model, template PDB ID: Not available - Comparative model, template PDB ID: Not available - De Novo model, File: 10.5281/zenodo.6674232 - Comparative model, template PDB ID: Not available - 3DEM volume, EMDB: EMD-27557 - 3DEM volume, File: 10.5281/zenodo.6674232 - Experimental model, PDB ID: 2FVU - Experimental model, PDB ID: 4BKX - Experimental model, PDB ID: 5FXV - Experimental model, PDB ID: 4PBZ - Experimental model, PDB ID: 2GAT
2. Representation	
Resolution	Coarse-grained: 1, 2, 3, 4, 5 residue(s) per bead
Number of rigid bodies , flexible units	18, 34
<i>Rigid bodies</i>	<ul style="list-style-type: none"> - D: 8-376 - C: 8-376 - B: 1-164, 165-333, 334-353, 389-431, 468-546, 670-691 - A: 1-164, 165-333, 334-353, 389-431, 468-546, 670-691 - H: 10-411 - E: 2-411 - F: 2-411 - G: 10-411

<i>Flexible units</i>	<ul style="list-style-type: none"> - D: 1-7, 377-482 - C: 1-7, 377-482 - B: 229-236, 354-388, 432-467, 519-528, 547-669, 692-715 - A: 229-236, 354-388, 432-467, 519-528, 547-669, 692-715 - H: 1-9, 90-102, 164-165, 176-179, 212-213, 412-425 - E: 1-1, 90-113, 412-425 - F: 1-1, 90-113, 412-425 - G: 1-9, 90-102, 164-165, 176-179, 212-213, 412-425
<i>Structural coverage (rigid bodies)</i>	80%
3. Restraints	
<i>Physical principles</i>	Information about physical principles was not provided
<i>Experimental data</i>	<ul style="list-style-type: none"> - 1 unique CrossLinkRestraint: ADH, 17 cross-links - 1 unique CrossLinkRestraint: BS3, 314 cross-links - 1 unique CrossLinkRestraint: Other, 30 cross-links - 1 unique EM3DRestraint: Gaussian mixture models
4. Validation	
<i>Number of ensembles</i>	1
<i>Number of models in ensembles</i>	12913
<i>Number of deposited models</i>	1
<i>Model precision (uncertainty of models)</i>	27.0, Å
<i>Data quality</i>	Data quality has not been assessed
<i>Model quality: assessment of excluded volume</i>	Satisfaction: 99.85-99.85%
<i>Fit to data used for modeling</i>	Fit of model to information used to compute it has not been determined
<i>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	
<i>1. Method</i>	Sampling
<i>Name</i>	Replica exchange monte carlo
<i>Number of computed models</i>	500000
<i>Software</i>	<ul style="list-style-type: none"> - IMP PMI module (version 2.16.0) - Integrative Modeling Platform (IMP) (version 2.16.0)