

**Summary of integrative structure determination of the proteasome-interacting ecm29 protein disassembles the 26s proteasome in response to oxidative stress (PDBDEV00000026)**

1. Model Composition	
<a href="#">Entry composition</a>	<ul style="list-style-type: none"> <li>- Rpn15: Chain J (70 residues)</li> <li>- Rpn6: Chain O (422 residues)</li> <li>- Rpn9: Chain R (376 residues)</li> <li>- Rpt3: Chain E (418 residues)</li> <li>- Rpn8: Chain Q (324 residues)</li> <li>- Rpn11: Chain I (310 residues)</li> <li>- Rpt1: Chain F (433 residues)</li> <li>- Rpn5: Chain N (456 residues)</li> <li>- Rpn12: Chain G (350 residues)</li> <li>- ecm29: Chain S (1845 residues)</li> <li>- Rpt6: Chain A (406 residues)</li> <li>- Rpt5: Chain C (439 residues)</li> <li>- Rpn7: Chain P (389 residues)</li> <li>- Rpn1: Chain K (908 residues)</li> <li>- Rpt4: Chain B (389 residues)</li> <li>- Rpn3: Chain M (534 residues)</li> <li>- Rpt2: Chain D (440 residues)</li> <li>- Rpn2: Chain L (953 residues)</li> <li>- Rpn10: Chain H (377 residues)</li> </ul>
<a href="#">Datasets used for modeling</a>	<ul style="list-style-type: none"> <li>- Experimental model, PDB ID: 5GJR</li> <li>- Experimental model, PDB ID: Not listed</li> <li>- Experimental model, PDB ID: 1U6G</li> <li>- Comparative model, template PDB ID: Not listed</li> <li>- Experimental model, PDB ID: 3W3W</li> <li>- Comparative model, template PDB ID: Not listed</li> <li>- CX-MS data, Linker name and number of cross-links: DSSO, 63 cross-links</li> </ul>
2. Representation	
<a href="#">Atomic structural coverage</a>	11%
Number of <a href="#">rigid bodies</a> , <a href="#">flexible units</a>	7, 101

<i>Rigid bodies</i>	<ul style="list-style-type: none"> <li>- A: -</li> <li>- B: -</li> <li>- C: -</li> <li>- D: -</li> <li>- E: -</li> <li>- F: -</li> <li>- G: -</li> <li>- H: -</li> <li>- I: -</li> <li>- J: -</li> <li>- K: -</li> <li>- L: -</li> <li>- M: -</li> <li>- N: -</li> <li>- O: -</li> <li>- P: -</li> <li>- Q: -</li> <li>- R: -</li> <li>- S: 352-504:Comparative model/None, 686-760:Comparative model/None, 788-911:Comparative model/None, 934-1035:Comparative model/None, 1062-1306:Comparative model/None, 1331-1666:Comparative model/None, 1689-1738:Comparative model/None.</li> </ul>
<i>Flexible units</i>	<ul style="list-style-type: none"> <li>- A: 1-23, 24-250, 251-266, 267-397, 398-406.</li> <li>- B: 1-14, 15-389.</li> <li>- C: 1-43, 44-99, 100-119, 120-439.</li> <li>- D: 1-64, 65-84, 85-90, 91-429, 430-440.</li> <li>- E: 1-38, 39-418.</li> <li>- F: 1-46, 47-72, 73-79, 80-433.</li> <li>- G: 1-88, 89-130, 131-134, 135-350.</li> <li>- H: 1-193, 194-377.</li> <li>- I: 1-27, 28-163, 164-189, 190-310.</li> <li>- J: 1-2, 3-27, 28-34, 35-68, 69-70.</li> <li>- K: 1-105, 106-170, 171-178, 179-301, 302-308, 309-618, 619-652, 653-848, 849-870, 871-908.</li> <li>- L: 1-2, 3-272, 273-320, 321-750, 751-752, 753-816, 817-877, 878-917, 918-922, 923-939, 940-953.</li> <li>- M: 1-56, 57-101, 102-103, 104-116, 117-159, 160-496, 497-499, 500-525, 526-534.</li> <li>- N: 1-4, 5-24, 25-39, 40-94, 95-98, 99-112, 113-116, 117-132, 133-138, 139-332, 333-340, 341-454, 455-456.</li> <li>- O: 1-1, 2-422.</li> <li>- P: 1-13, 14-389.</li> <li>- Q: 1-3, 4-142, 143-151, 152-295, 296-324.</li> <li>- R: 1-2, 3-54, 55-56, 57-376.</li> <li>- S: 1-351, 505-685, 761-787, 912-933, 1036-1061, 1307-1330, 1667-1688, 1739-1845.</li> </ul>
<a href="#">Resolution</a>	<ul style="list-style-type: none"> <li>- Rigid bodies: 1 residue per bead.</li> <li>- Flexible regions: N/A</li> </ul>
<b>3. Restraints</b>	
<a href="#">Physical principles</a>	Information about physical principles was not provided
<a href="#">Experimental data</a>	- 1 unique CrossLinkRestraint: DSSO, 63 cross-links
<b>4. Validation</b>	
<a href="#">Sampling validation</a>	- Information related to sampling validation has not been provided

<a href="#"><i>Clustering algorithm ,clustering feature</i></a>	Distance threshold-based clustering used if ensembles are deposited, dRMSD
<a href="#"><i>Number of ensembles</i></a>	2
<a href="#"><i>Number of models in ensembles</i></a>	11980, 6261
<a href="#"><i>Model precision (uncertainty of models)</i></a>	60.0Å, 60.0Å
<a href="#"><i>Quality of data</i></a>	- Quality of input data has not be assessed
<a href="#"><i>Model quality: assessment of atomic segments</i></a>	Not applicable
<a href="#"><i>Model quality: assessment of excluded volume</i></a>	- Model-1: Number of violations-22257.0 - Model-2: Number of violations-22180.0
<a href="#"><i>Fit of the model to information used to compute it</i></a>	- Fit of model to information used to compute it has not been determined
<a href="#"><i>Fit of the model to information not used to compute it</i></a>	- Fit of model to information not used to compute it has not been determined
<b>5. Methodology and Software</b>	
<a href="#"><i>Method</i></a>	Sampling
<a href="#"><i>Name</i></a>	Replica exchange Monte Carlo
<a href="#"><i>Details</i></a>	- Method details unspecified
<a href="#"><i>Software</i></a>	- IMP PMI module (version develop-7c7c0f4348) - Integrative Modeling Platform (IMP) (version develop-0a5706e202) - MODELLER (version 9.17) - No location specified