

Summary of integrative structure determination of Elliptical 52-mer bacterial gasdermin pore model from Vitiosangium sp. (PDB ID: 9A86 | pdb_00009a86, PDB-Dev ID: PDBDEV_00000371)

1. Model Composition	
1.1. Entry composition	Gasdermin bGSDM: chain(s) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA [a], BA [b], CA [c], DA [d], EA [e], FA [f], GA [g], HA [h], IA [i], JA [j], KA [k], LA [l], MA [m], NA [n], OA [o], PA [p], QA [q], RA [r], SA [s], TA [t], UA [u], VA [v], WA [w], XA [x], YA [y], ZA [z] (234 residues)
1.2. Datasets used for modeling	- Experimental model, PDB: pdb_00008sl0 - 3DEM volume, EMDB: EMD-43510 - 2DEM class average, Zenodo: 10.5281/zenodo.10570209
2. Representation	
2.1. Number of representations	1
2.2. Scale	Atomic
2.3. Number of rigid and flexible segments	0, 52
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	
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	EMD-43510: resolution is 6.10 Å
4.7. Model quality: assessment of atomic segments	- Clashscore: 48.93 - Ramachandran outliers: 156 - Sidechain outliers: 52
4.8. Fit to data used for modeling	- 3DEM q-score(s): 0.00 - 3DEM atom inclusion score(s): 0.00
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	

<i>1. 5.1. Method name</i>	Not available
<i>5.3. Method description</i>	To make the 52-mer pore model, protomer models (PDB 8SL0) were realigned using a custom script and a geometric model based on the number of protomers observed in the major 2D classes (52) and the eccentricity of a cryo-EM map of an oval pore (0.86, EMD-43510). Protomers were realigned to preserve the inter-subunit hydrogen bonding pattern observed in the slinky-like oligomer.
<i>5.5. Software</i>	- Python (version v3.9.7) - MDAnalysis (version v2.4.2)