CheckMyMetal(CMM) report for PDB code: 6vw1

PDB title: Structure of sars-cov-2 chimeric receptor-binding domain complexed with its receptor human ace2 (2.7Å)

ID	Res.	Metal	Occupancy	B factor (env.) ¹	Ligands	Valence ²	nVECSUM ³	Geometry ^{1,4}	gRMSD(°) ¹	Vacancy ¹	Bidentate	Alt. metal
A:704	ZN	Zn	1	<u>135.5</u> (79.8)		N/A	N/A	<u>Free</u>	N/A	N/A	N/A	
A:705	CL	Cl	1	75 (67)		N/A	N/A	<u>Free</u>	N/A	N/A	N/A	
B:703	ZN	Zn	1	196.8 (95.5)		N/A	N/A	<u>Free</u>	N/A	N/A	N/A	
	Le	gend:	Not applicable Outlier <i>Borderline</i> Acceptable									

Column	Description							
Occupancy	Occupancy of ion under consideration							
B factor (env.) ¹	Metal ion B factor, with valence-weighted environmental average B factor in parenthesis							
Ligands	Elemental composition of the coordination sphere							
1/2/02/04	Summation of bond valence values for an ion binding site. <i>Valence</i> accounts for metal-ligand distances							
	Summation of ligand vectors, weighted by bond valence values and normalized by overall valence. Increase when the coordination sphere is not symmetrical due to incompleteness.							
Geometry ^{1,4}	Arrangement of ligands around the ion, as defined by the NEIGHBORHOOD algorithm							
	R.M.S. Deviation of observed geometry angles (L-M-L angles) compared to ideal geometry, in degrees							
Vacancy ¹	Percentage of unoccupied sites in the coordination sphere for the given geometry							
ibidentate	Number of residues that form a bidentate interaction instead of being considered as multiple ligands							
Alt. metal	A list of alternative metal(s) is proposed in descending order of confidency, assuming metal environment is accurately determined. This feature is still experimental. It requires user discrimination and cannot be blindly accepted							

(1) Zheng H, Chordia MD, Cooper DR, Chruszcz M, Müller P, Sheldrick GM, Minor W (2014) *Nature Protocols*, 9(1), 156-70.

(2) Brown ID (2009) Chem. Rev., 109, 6858-6919.

(3) Müller P, Köpke S, Sheldrick GM (2003) Acta Crystallogr. D Biol. Crystallogr., 59, 32-37.

(4) Kuppuraj G, Dudev M, Lim C (2009) *J. Phys. Chem. B, 113*, 2952-2960.

(5) CSD: Cambridge Structural Database

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Citing CheckMyMetal (CMM):

Validation of metal-binding sites in macromolecular structures with the CheckMyMetal web server. Zheng, H., Chordia, M.D., Cooper, D.R., Chruszcz, M., Müller, P., Sheldrick, G.M., Minor, W. (2014) Nature Protocols, 9(1), 156-70.