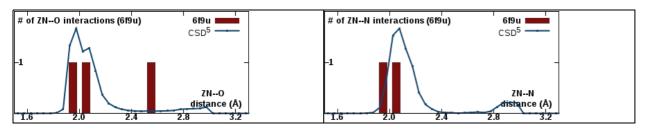
CheckMyMetal(CMM) report for PDB code: 6f9u

PDB title: Crystal structure of human testis angiotensin-1 converting enzyme in complex with sampatrilat-asp. (1.9Å)

ID	Res.	Metal		B factor (env.) ¹		Valence ²	nVECSUM ³	Geometry ^{1,4}	gRMSD(°) ¹	Vacancy ¹	Bidentate	Alt. metal
A:707	ZN	Zn		21.1 (20.3)	O ₃ N ₂	1.9	<u>0.12</u>	<u>Trigonal</u> <u>Bipyramidal</u>	<u>15.6°</u>	0		Co, Zn
A:708	CL	Cl	1	<u>21.8</u> (26.4)		N/A	N/A	<u>Free</u>	N/A	N/A	N/A	
A:709	CL	Cl		22.7 (23.6)		N/A	N/A	<u>Free</u>	N/A	N/A	N/A	
A:712	воз	В	1	43 (40.1)	O ₃	3.2	0.084	Trigonal Planar	1°	0	0	
Legend:			Not applicable	utlier Bo	<u>rderline</u> A	cceptable						

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							
$11/2lanco^4$	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							
1000000000000000000000000000000000000	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							
IBIOEDIALE	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							

Metal-ligand distance distributions for pdb6f9u.ent in comparison with CSD



- (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.