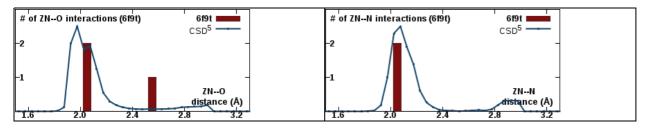
CheckMyMetal(CMM) report for PDB code: 6f9t

PDB title: Crystal structure of human testis angiotensin-1 converting enzyme in complex with sampatrilat. (1.6Å)

ID	Res.	Metal	Occupancy	B factor (env.) ¹	Ligands	Valence ²	nVECSUM ³	Geometry ^{1,4}	gRMSD(°) ¹	Vacancy ¹	Bidentate	Alt. metal
A:711	ZN	Zn	1	<u>6.4</u> (11.3)	O ₃ N ₂	1.9	0.081	<u>Trigonal</u> <u>Bipyramidal</u>	<u>14.9°</u>	0	0	Co, Zn
A:713	CL	Cl		14.3 (14.7)		N/A	N/A	<u>Free</u>	N/A	N/A	N/A	
A:714	CL	Cl	1	12.4 (11.8)		N/A	N/A	<u>Free</u>	N/A	N/A	N/A	
A:717	воз	В	1	<u>41.5</u> (30.1)	O ₃	3.1	0.048	Trigonal Planar	0.4°	0	0	
	Legend:		Not applicable	utlier <u>Bo</u>	<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						
Valence ²	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						
$I\alpha PMSD(\circ)$	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						
ibidentale	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 pdb6f9t.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.