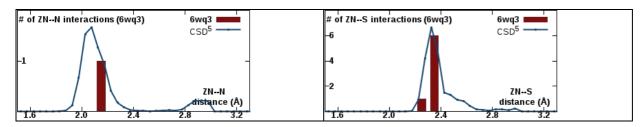
CheckMyMetal(CMM) report for PDB code: 6wq3

PDB title: Crystal structure of nsp16-nsp10 heterodimer from sars-cov-2 in complex with 7-methyl-gpppa and s-adenosyl-lhomocysteine. (2.1Å)

ID	Res.	Metal	Occupancy	B factor (env.) ¹	Ligands	Valence ²	nVECSUM ³	Geometry ^{1,4}	gRMSD(°) ¹	Vacancy ¹	Bidentate	Alt. metal
B:4401	ZN	Zn	1	59.7 (63.6)	N_1S_3	2	0.089	Tetrahedral	4.7°	0	0	
B:4402	ZN	Zn	1	<u>78.2</u> (91.7)	S ₄	2	0.094	Tetrahedral	8.4°	0	0	
Legend:			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					
Valence ²	Summation of bond valence values for an ion binding site. <i>Valence</i> accounts for metal-ligand distances					
nVECSUM ³	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					
gRMSD(°) ¹	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					
Bidentate	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 pdb6wq3.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
Maintained by: Heping Zheng <<u>dust@iwonka.med.virginia.edu</u>>

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.