



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 14, 2026 – 10:52 PM UTC

PDB ID : 5ZB3 / pdb_00005zb3
Title : Dimeric crystal structure of ORF57 from KSHV
Authors : Gao, Z.Q.; Yuan, F.; Dong, Y.H.; Lan, K.
Deposited on : 2018-02-09
Resolution : 3.51 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

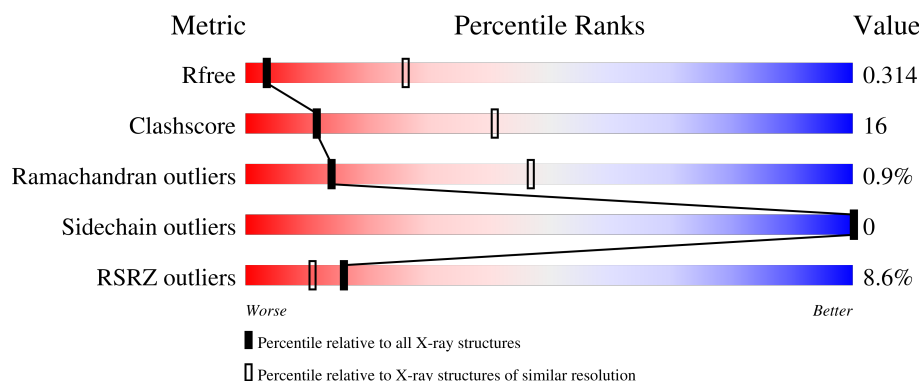
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.51 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1085 (3.54-3.46)
Clashscore	190562	1140 (3.54-3.46)
Ramachandran outliers	187476	1113 (3.54-3.46)
Sidechain outliers	187428	1114 (3.54-3.46)
RSRZ outliers	180081	1084 (3.54-3.46)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	288	5% 65% 31% ..
1	B	288	12% 62% 34% .

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 4412 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called ORF57.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	280	Total	C	N	O	S	0	0	0
			2205	1406	396	388	15			
1	B	280	Total	C	N	O	S	0	0	0
			2205	1406	396	388	15			

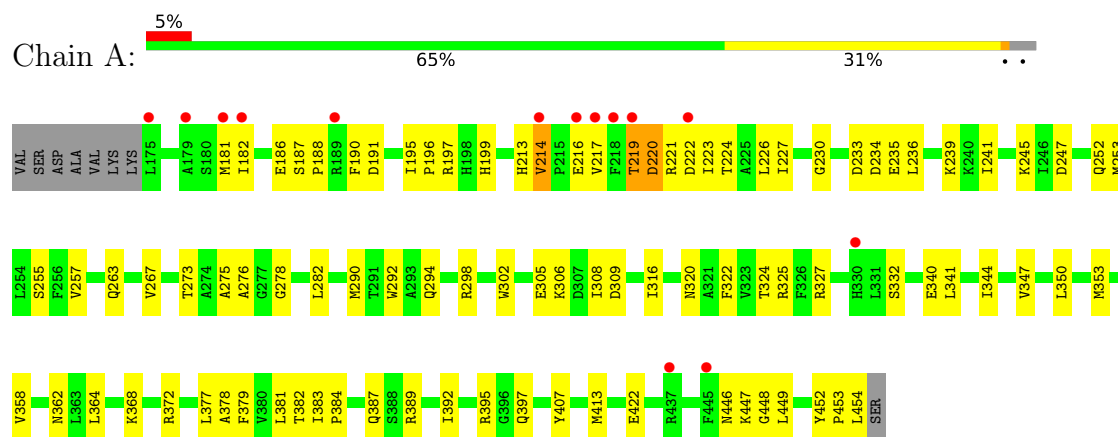
- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Zn	0	0
			1	1		
2	B	1	Total	Zn	0	0
			1	1		

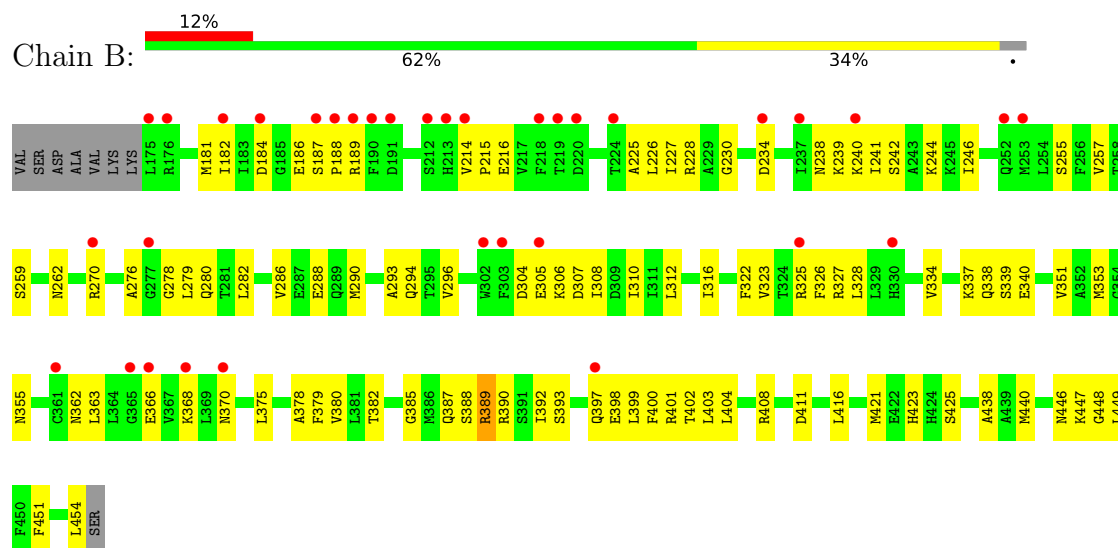
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: ORF57



• Molecule 1: ORF57



4 Data and refinement statistics

Property	Value	Source
Space group	P 64 2 2	Depositor
Cell constants a, b, c, α , β , γ	167.53Å 167.53Å 227.63Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	33.15 – 3.51 33.15 – 3.51	Depositor EDS
% Data completeness (in resolution range)	98.2 (33.15-3.51) 98.2 (33.15-3.51)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.38 (at 3.47Å)	Xtriage
Refinement program	PHENIX (1.10.1_2155)	Depositor
R, R_{free}	0.257 , 0.306 0.261 , 0.314	Depositor DCC
R_{free} test set	1152 reflections (4.74%)	wwPDB-VP
Wilson B-factor (Å ²)	102.4	Xtriage
Anisotropy	0.562	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 82.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.55$, $\langle L^2 \rangle = 0.40$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	4412	wwPDB-VP
Average B, all atoms (Å ²)	118.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.62% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ZN

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.21	0/2252	0.52	2/3043 (0.1%)
1	B	0.22	0/2252	0.51	0/3043
All	All	0.22	0/4504	0.51	2/6086 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	219	THR	CA-C-N	7.42	135.06	121.70
1	A	219	THR	C-N-CA	7.42	135.06	121.70

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2205	0	2220	74	0
1	B	2205	0	2220	79	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
All	All	4412	0	4440	141	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including

hydrogen atoms). The all-atom clashscore for this structure is 16.

All (141) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:THR:OG1	1:A:447:LYS:O	2.01	0.78
1:A:223:ILE:HD11	1:A:252:GLN:HB3	1.66	0.78
1:B:389:ARG:HH22	1:B:401:ARG:HD2	1.49	0.78
1:A:294:GLN:NE2	1:A:407:TYR:O	2.18	0.77
1:B:325:ARG:NH1	1:B:328:LEU:HD13	2.01	0.75
1:A:368:LYS:HE3	1:B:184:ASP:HA	1.69	0.74
1:A:290:MET:SD	1:A:382:THR:OG1	2.45	0.74
1:B:290:MET:SD	1:B:382:THR:OG1	2.47	0.71
1:B:312:LEU:O	1:B:387:GLN:NE2	2.23	0.70
1:A:219:THR:HA	1:A:220:ASP:HB2	1.76	0.68
1:A:196:PRO:HB2	1:A:199:HIS:CD2	2.29	0.68
1:B:214:VAL:HG12	1:B:216:GLU:H	1.58	0.68
1:A:379:PHE:HE1	1:A:407:TYR:HB2	1.57	0.68
1:A:213:HIS:CG	1:A:214:VAL:H	2.13	0.67
1:A:327:ARG:HH22	1:B:353:MET:HA	1.59	0.66
1:B:241:ILE:HD12	1:B:241:ILE:O	1.95	0.65
1:B:239:LYS:HZ1	1:B:446:ASN:HB3	1.62	0.65
1:A:233:ASP:OD1	1:A:447:LYS:HB2	1.97	0.65
1:A:332:SER:HA	1:A:341:LEU:HD11	1.80	0.63
1:B:280:GLN:HG3	1:B:440:MET:HB2	1.80	0.62
1:A:219:THR:HA	1:A:220:ASP:CB	2.30	0.62
1:A:275:ALA:HB1	1:B:325:ARG:NH2	2.15	0.62
1:A:340:GLU:O	1:A:344:ILE:HG12	2.01	0.60
1:B:325:ARG:HH11	1:B:328:LEU:HD13	1.65	0.59
1:B:240:LYS:HG3	1:B:454:LEU:HD13	1.85	0.58
1:B:279:LEU:HD11	1:B:326:PHE:HA	1.86	0.57
1:B:338:GLN:HG2	1:B:339:SER:H	1.70	0.57
1:A:234:ASP:OD1	1:A:235:GLU:N	2.37	0.56
1:B:307:ASP:OD1	1:B:308:ILE:N	2.38	0.56
1:A:186:GLU:O	1:A:187:SER:OG	2.22	0.56
1:B:186:GLU:HB3	1:B:187:SER:C	2.31	0.56
1:A:344:ILE:HG23	1:A:377:LEU:HD11	1.89	0.55
1:B:392:ILE:HG22	1:B:393:SER:H	1.73	0.54
1:B:240:LYS:HE3	1:B:454:LEU:HD22	1.90	0.54
1:B:325:ARG:HA	1:B:328:LEU:HD12	1.88	0.54
1:A:217:VAL:HG12	1:A:219:THR:HG23	1.90	0.54
1:A:302:TRP:HE1	1:A:389:ARG:CZ	2.21	0.54
1:A:292:TRP:NE1	1:A:309:ASP:OD2	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:214:VAL:O	1:B:216:GLU:HG3	2.08	0.54
1:A:220:ASP:OD1	1:A:221:ARG:N	2.41	0.53
1:A:353:MET:HE1	1:B:353:MET:HB3	1.90	0.53
1:B:214:VAL:HG13	1:B:262:ASN:OD1	2.07	0.53
1:A:190:PHE:H	1:A:191:ASP:HA	1.73	0.53
1:B:294:GLN:NE2	1:B:404:LEU:O	2.41	0.53
1:A:247:ASP:OD2	1:A:298:ARG:NH2	2.43	0.52
1:B:389:ARG:HG2	1:B:397:GLN:HG2	1.92	0.52
1:B:279:LEU:H	1:B:440:MET:HA	1.74	0.51
1:B:270:ARG:NH1	1:B:288:GLU:OE2	2.43	0.51
1:A:316:ILE:HD13	1:A:384:PRO:HB3	1.91	0.51
1:B:446:ASN:O	1:B:449:LEU:N	2.43	0.51
1:B:304:ASP:C	1:B:306:LYS:HA	2.35	0.50
1:A:353:MET:CE	1:B:353:MET:HB3	2.42	0.50
1:A:197:ARG:HH12	1:B:408:ARG:HB2	1.77	0.50
1:B:323:VAL:HG11	1:B:351:VAL:HB	1.94	0.50
1:A:358:VAL:O	1:A:362:ASN:ND2	2.44	0.50
1:B:293:ALA:HA	1:B:296:VAL:HG22	1.93	0.50
1:A:413:MET:HG3	1:A:452:TYR:OH	2.12	0.49
1:A:181:MET:HE2	1:A:182:ILE:HG12	1.93	0.49
1:B:385:GLY:O	1:B:389:ARG:HG3	2.13	0.49
1:A:377:LEU:O	1:A:381:LEU:HD12	2.13	0.49
1:B:181:MET:SD	1:B:182:ILE:HG13	2.52	0.49
1:A:378:ALA:O	1:A:382:THR:HG23	2.13	0.49
1:A:213:HIS:CD2	1:A:214:VAL:H	2.30	0.48
1:B:215:PRO:HD2	1:B:262:ASN:OD1	2.13	0.48
1:B:230:GLY:HA2	1:B:449:LEU:O	2.13	0.48
1:A:197:ARG:NH1	1:B:408:ARG:HB2	2.29	0.48
1:B:362:ASN:OD1	1:B:363:LEU:N	2.46	0.48
1:A:383:ILE:O	1:A:387:GLN:HG3	2.12	0.48
1:B:226:LEU:HD23	1:B:227:ILE:HD13	1.96	0.48
1:A:190:PHE:N	1:A:191:ASP:HA	2.29	0.48
1:A:275:ALA:HB1	1:B:325:ARG:CZ	2.44	0.48
1:B:325:ARG:HH21	1:B:438:ALA:C	2.21	0.48
1:B:382:THR:HA	1:B:400:PHE:CD1	2.49	0.48
1:A:327:ARG:NH2	1:B:353:MET:HA	2.26	0.48
1:A:379:PHE:CE1	1:A:407:TYR:HB2	2.45	0.48
1:B:416:LEU:HD11	1:B:440:MET:HE1	1.96	0.48
1:B:234:ASP:OD2	1:B:238:ASN:ND2	2.44	0.47
1:B:389:ARG:O	1:B:390:ARG:HG3	2.14	0.47
1:B:447:LYS:HA	1:B:448:GLY:HA2	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:353:MET:HA	1:B:327:ARG:NH2	2.29	0.47
1:B:334:VAL:HA	1:B:423:HIS:CD2	2.50	0.47
1:A:196:PRO:HB2	1:A:199:HIS:HD2	1.80	0.46
1:B:366:GLU:OE1	1:B:366:GLU:N	2.47	0.46
1:A:213:HIS:CG	1:A:214:VAL:N	2.81	0.46
1:B:305:GLU:N	1:B:306:LYS:HA	2.30	0.46
1:B:368:LYS:HG2	1:B:370:ASN:H	1.80	0.46
1:A:320:ASN:O	1:A:324:THR:HG23	2.15	0.46
1:A:347:VAL:HA	1:A:350:LEU:HD12	1.97	0.45
1:A:282:LEU:HD13	1:A:322:PHE:HA	1.98	0.45
1:B:188:PRO:CB	1:B:189:ARG:HA	2.47	0.45
1:A:305:GLU:HA	1:A:306:LYS:HA	1.47	0.45
1:A:223:ILE:HD11	1:A:252:GLN:CB	2.42	0.45
1:A:447:LYS:HA	1:A:448:GLY:HA2	1.67	0.45
1:A:187:SER:N	1:A:188:PRO:HD3	2.32	0.44
1:B:322:PHE:CE2	1:B:380:VAL:HG21	2.52	0.44
1:A:392:ILE:HG23	1:A:397:GLN:HG2	1.98	0.44
1:A:223:ILE:HG23	1:A:226:LEU:HD23	2.00	0.44
1:B:225:ALA:HA	1:B:228:ARG:HG2	1.99	0.44
1:B:379:PHE:HE2	1:B:411:ASP:HB3	1.82	0.44
1:A:223:ILE:HD13	1:A:253:MET:HA	2.00	0.44
1:B:379:PHE:HD1	1:B:403:LEU:HD23	1.83	0.44
1:B:255:SER:O	1:B:259:SER:N	2.51	0.43
1:A:239:LYS:HZ3	1:A:449:LEU:HB3	1.83	0.43
1:A:290:MET:HE3	1:A:290:MET:HB3	1.92	0.43
1:A:372:ARG:NH1	1:A:422:GLU:OE1	2.45	0.43
1:B:278:GLY:O	1:B:282:LEU:HD12	2.19	0.43
1:A:263:GLN:O	1:A:267:VAL:HG23	2.19	0.43
1:A:220:ASP:O	1:A:224:THR:HG23	2.17	0.43
1:B:421:MET:O	1:B:425:SER:OG	2.29	0.43
1:A:395:ARG:H	1:A:395:ARG:HG2	1.60	0.43
1:B:288:GLU:HG3	1:B:451:PHE:CZ	2.53	0.43
1:A:364:LEU:HD11	1:A:381:LEU:HD13	2.01	0.43
1:B:388:SER:O	1:B:390:ARG:N	2.52	0.42
1:A:221:ARG:HA	1:A:222:ASP:HA	1.56	0.42
1:A:257:VAL:HG21	1:A:292:TRP:CZ2	2.53	0.42
1:B:399:LEU:HG	1:B:403:LEU:HD13	2.00	0.42
1:A:278:GLY:HA2	1:A:325:ARG:HD2	2.01	0.42
1:B:241:ILE:HD11	1:B:451:PHE:HD2	1.84	0.42
1:B:257:VAL:HG13	1:B:310:ILE:HB	2.01	0.42
1:A:227:ILE:O	1:A:230:GLY:N	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:337:LYS:HG2	1:B:340:GLU:CD	2.45	0.41
1:A:358:VAL:HG12	1:A:362:ASN:HD21	1.85	0.41
1:B:282:LEU:O	1:B:286:VAL:HG23	2.21	0.41
1:B:398:GLU:O	1:B:402:THR:OG1	2.24	0.41
1:A:252:GLN:O	1:A:255:SER:OG	2.33	0.41
1:A:276:ALA:O	1:B:276:ALA:HB1	2.19	0.41
1:B:214:VAL:C	1:B:216:GLU:N	2.77	0.41
1:B:316:ILE:HD12	1:B:316:ILE:H	1.85	0.41
1:B:353:MET:O	1:B:355:ASN:N	2.49	0.41
1:A:453:PRO:O	1:A:454:LEU:HD23	2.21	0.41
1:B:241:ILE:HD13	1:B:246:ILE:HG12	2.03	0.41
1:A:332:SER:HA	1:A:341:LEU:CD1	2.48	0.41
1:A:241:ILE:HD11	1:A:245:LYS:HD3	2.03	0.41
1:A:292:TRP:HE1	1:A:309:ASP:CG	2.26	0.41
1:A:446:ASN:O	1:A:449:LEU:HB2	2.20	0.41
1:A:236:LEU:HD23	1:A:236:LEU:HA	1.88	0.41
1:B:242:SER:HB3	1:B:244:LYS:HE2	2.02	0.40
1:A:195:ILE:HD11	1:B:375:LEU:HD21	2.02	0.40
1:B:378:ALA:O	1:B:382:THR:HG23	2.21	0.40
1:B:239:LYS:NZ	1:B:449:LEU:O	2.49	0.40
1:B:282:LEU:HD22	1:B:322:PHE:N	2.37	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	278/288 (96%)	258 (93%)	16 (6%)	4 (1%)	9	38
1	B	278/288 (96%)	238 (86%)	39 (14%)	1 (0%)	30	62
All	All	556/576 (96%)	496 (89%)	55 (10%)	5 (1%)	14	47

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	214	VAL
1	A	216	GLU
1	A	220	ASP
1	B	389	ARG
1	A	308	ILE

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	235/242 (97%)	235 (100%)	0	100	100
1	B	235/242 (97%)	235 (100%)	0	100	100
All	All	470/484 (97%)	470 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	199	HIS
1	A	213	HIS
1	A	387	GLN
1	B	417	ASN
1	B	446	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	280/288 (97%)	0.33	14 (5%) 34 19	71, 98, 171, 238	0
1	B	280/288 (97%)	0.62	34 (12%) 8 6	83, 114, 190, 267	0
All	All	560/576 (97%)	0.48	48 (8%) 16 11	71, 107, 186, 267	0

All (48) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	214	VAL	5.9
1	A	217	VAL	5.8
1	B	175	LEU	4.9
1	A	218	PHE	4.6
1	B	176	ARG	4.3
1	B	303	PHE	4.3
1	B	190	PHE	4.3
1	B	188	PRO	3.9
1	B	189	ARG	3.8
1	B	325	ARG	3.8
1	B	214	VAL	3.7
1	B	213	HIS	3.5
1	B	302	TRP	3.4
1	A	216	GLU	3.4
1	B	212	SER	3.4
1	B	277	GLY	3.3
1	B	365	GLY	3.3
1	A	175	LEU	3.2
1	B	182	ILE	3.1
1	A	219	THR	3.1
1	B	305	GLU	3.1
1	A	437	ARG	3.1
1	B	224	THR	3.0
1	B	270	ARG	3.0

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Mol	Chain	Res	Type	RSRZ
1	B	220	ASP	2.9
1	B	370	ASN	2.9
1	B	330	HIS	2.8
1	B	219	THR	2.8
1	B	240	LYS	2.6
1	A	179	ALA	2.5
1	B	397	GLN	2.4
1	A	189	ARG	2.4
1	B	218	PHE	2.4
1	B	191	ASP	2.4
1	B	366	GLU	2.3
1	B	368	LYS	2.3
1	A	445	PHE	2.2
1	B	234	ASP	2.2
1	B	252	GLN	2.2
1	B	253	MET	2.2
1	B	361	CYS	2.1
1	A	222	ASP	2.1
1	B	184	ASP	2.0
1	A	182	ILE	2.0
1	B	187	SER	2.0
1	A	181	MET	2.0
1	A	330	HIS	2.0
1	B	237	ILE	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

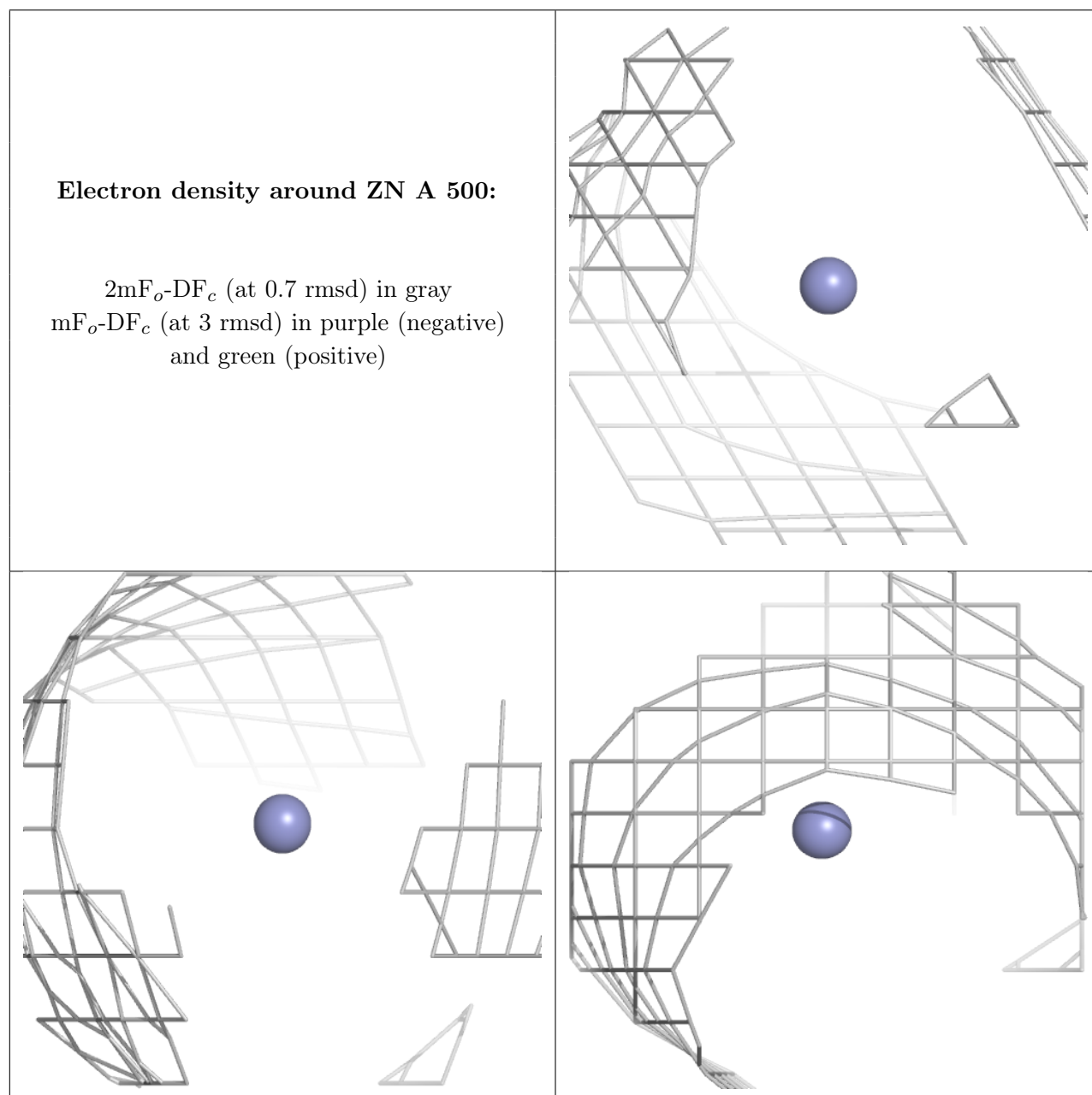
There are no oligosaccharides in this entry.

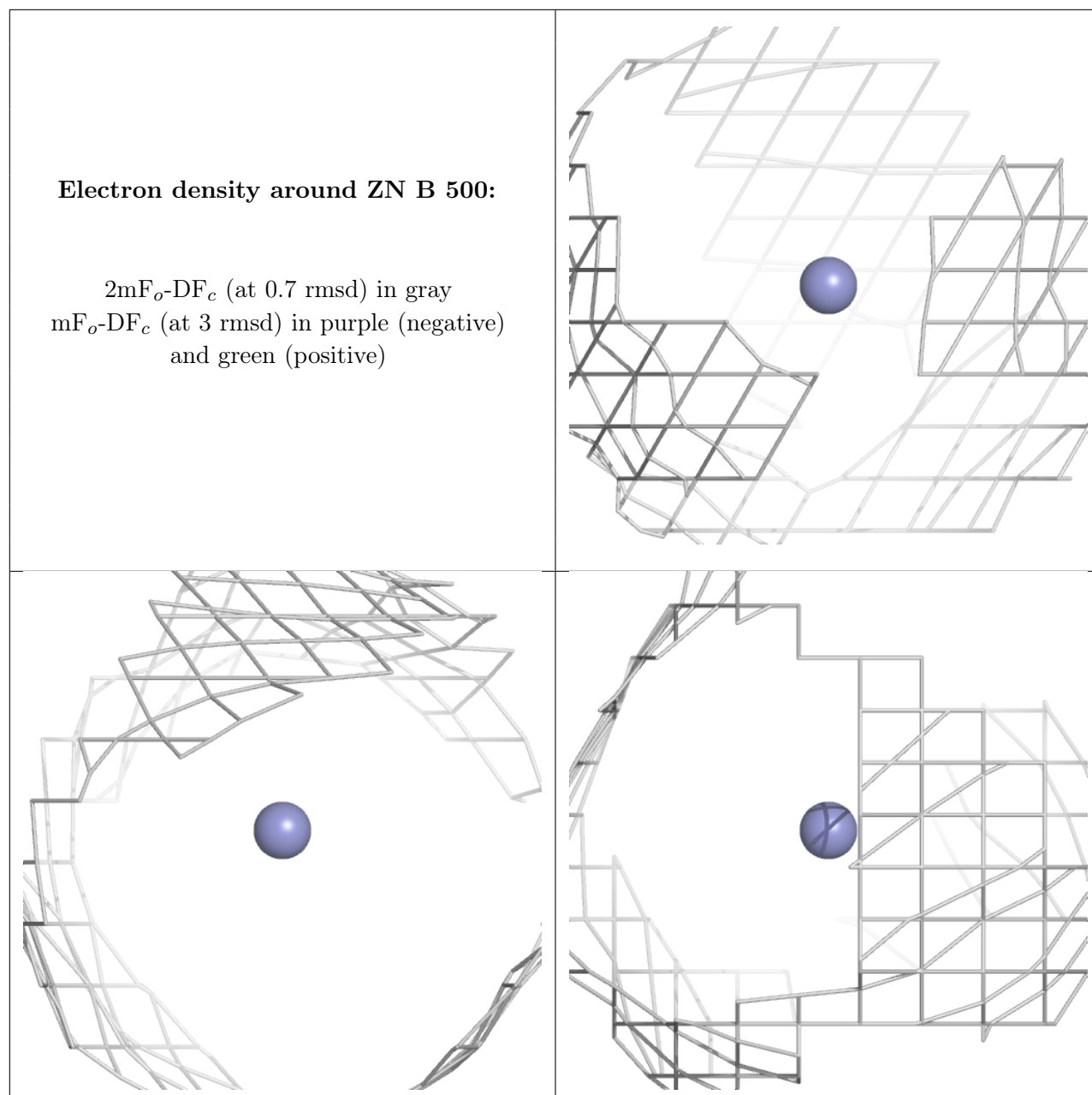
6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	ZN	A	500	1/1	0.99	0.02	92,92,92,92	0
2	ZN	B	500	1/1	1.00	0.03	78,78,78,78	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.





6.5 Other polymers ⓘ

There are no such residues in this entry.