



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 11:11 PM UTC

PDB ID : 7V4Y / pdb_00007v4y
Title : TTHA1264/TTHA1265 complex
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Deposited on : 2021-08-16
Resolution : 2.40 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

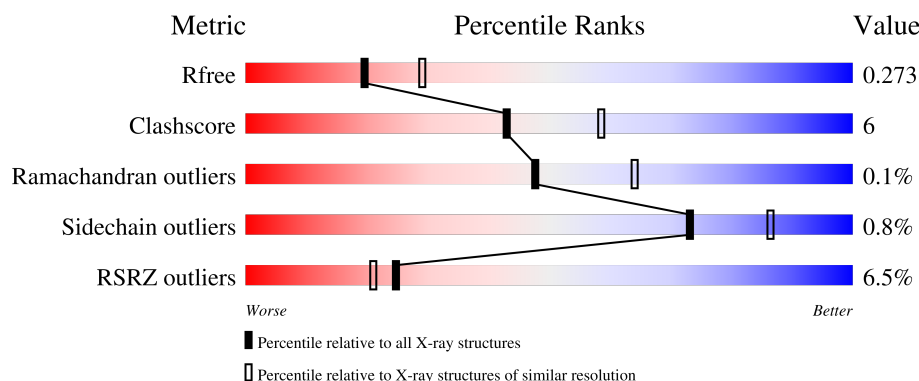
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

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	B	423	3% 86% 9% 5%
2	A	426	10% 79% 15% 6%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 6389 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 Zinc-dependent peptidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	401	Total	C	N	O	S	0	1	0
			3073	1948	557	562	6			

There are 21 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-19	MET	-	initiating methionine	UNP Q5SIU9
B	-18	GLY	-	expression tag	UNP Q5SIU9
B	-17	SER	-	expression tag	UNP Q5SIU9
B	-16	SER	-	expression tag	UNP Q5SIU9
B	-15	HIS	-	expression tag	UNP Q5SIU9
B	-14	HIS	-	expression tag	UNP Q5SIU9
B	-13	HIS	-	expression tag	UNP Q5SIU9
B	-12	HIS	-	expression tag	UNP Q5SIU9
B	-11	HIS	-	expression tag	UNP Q5SIU9
B	-10	HIS	-	expression tag	UNP Q5SIU9
B	-9	SER	-	expression tag	UNP Q5SIU9
B	-8	SER	-	expression tag	UNP Q5SIU9
B	-7	GLY	-	expression tag	UNP Q5SIU9
B	-6	LEU	-	expression tag	UNP Q5SIU9
B	-5	VAL	-	expression tag	UNP Q5SIU9
B	-4	PRO	-	expression tag	UNP Q5SIU9
B	-3	ARG	-	expression tag	UNP Q5SIU9
B	-2	GLY	-	expression tag	UNP Q5SIU9
B	-1	SER	-	expression tag	UNP Q5SIU9
B	0	HIS	-	expression tag	UNP Q5SIU9
B	32	VAL	GLY	engineered mutation	UNP Q5SIU9

- Molecule 2 is a protein called Putative zinc protease.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	A	402	Total	C	N	O	S	1	0	0
			3137	2000	551	577	9			

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-19	MET	-	initiating methionine	UNP Q5SIV0
A	-18	GLY	-	expression tag	UNP Q5SIV0
A	-17	SER	-	expression tag	UNP Q5SIV0
A	-16	SER	-	expression tag	UNP Q5SIV0
A	-15	HIS	-	expression tag	UNP Q5SIV0
A	-14	HIS	-	expression tag	UNP Q5SIV0
A	-13	HIS	-	expression tag	UNP Q5SIV0
A	-12	HIS	-	expression tag	UNP Q5SIV0
A	-11	HIS	-	expression tag	UNP Q5SIV0
A	-10	HIS	-	expression tag	UNP Q5SIV0
A	-9	SER	-	expression tag	UNP Q5SIV0
A	-8	SER	-	expression tag	UNP Q5SIV0
A	-7	GLY	-	expression tag	UNP Q5SIV0
A	-6	LEU	-	expression tag	UNP Q5SIV0
A	-5	VAL	-	expression tag	UNP Q5SIV0
A	-4	PRO	-	expression tag	UNP Q5SIV0
A	-3	ARG	-	expression tag	UNP Q5SIV0
A	-2	GLY	-	expression tag	UNP Q5SIV0
A	-1	SER	-	expression tag	UNP Q5SIV0
A	0	HIS	-	expression tag	UNP Q5SIV0
A	124	GLY	GLU	engineered mutation	UNP Q5SIV0
A	135	LEU	PHE	engineered mutation	UNP Q5SIV0
A	284	THR	SER	engineered mutation	UNP Q5SIV0
A	303	VAL	ASP	engineered mutation	UNP Q5SIV0

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Zn	0	0
			1	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	114	Total	O	0	0
			114	114		

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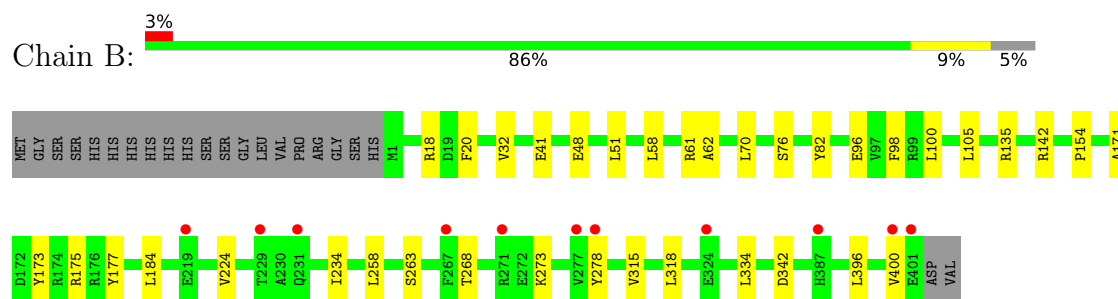
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	64	Total	O	0	0
			64	64		

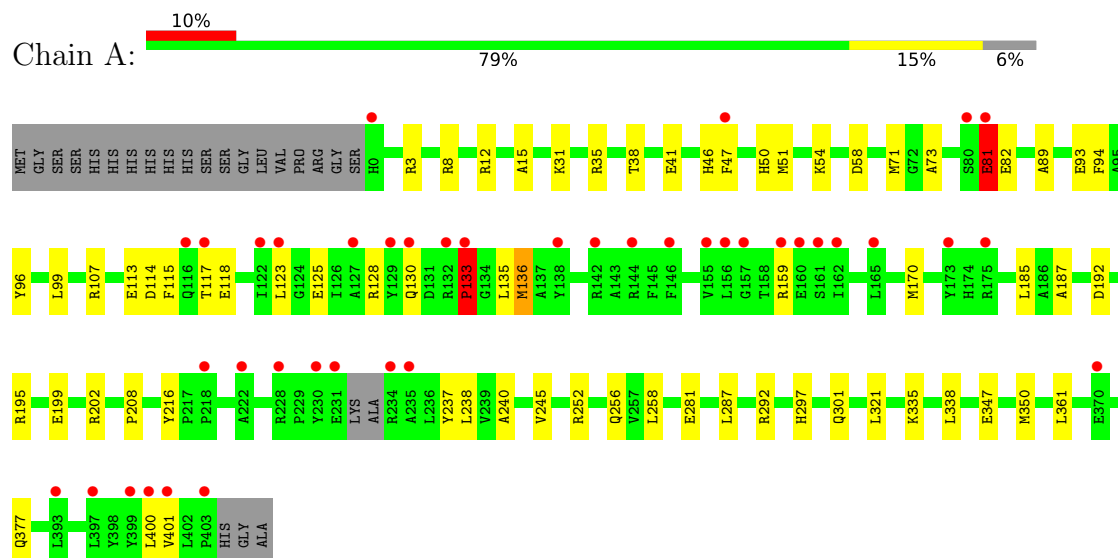
3 Residue-property plots [i](#)

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: Zinc-dependent peptidase



- Molecule 2: Putative zinc protease



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	87.16Å 87.16Å 244.98Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.98 – 2.40 19.98 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.4 (19.98-2.40) 99.4 (19.98-2.40)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.10 (at 2.41Å)	Xtriage
Refinement program	PHENIX v1.6	Depositor
R, R_{free}	0.231 , 0.267 0.237 , 0.273	Depositor DCC
R_{free} test set	1930 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	45.8	Xtriage
Anisotropy	0.405	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 38.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	6389	wwPDB-VP
Average B, all atoms (Å ²)	52.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.09% 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	B	0.69	0/3130	0.95	1/4240 (0.0%)
2	A	0.56	0/3205	0.87	6/4340 (0.1%)
All	All	0.63	0/6335	0.91	7/8580 (0.1%)

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	278	TYR	N-CA-C	-7.01	104.59	113.43
2	A	135	LEU	N-CA-C	-6.81	103.92	111.82
2	A	81	GLU	N-CA-C	-6.26	105.47	113.23
2	A	133	PRO	N-CA-C	6.11	125.06	112.47
2	A	133	PRO	CA-N-CD	-5.78	103.91	112.00
2	A	133	PRO	CB-CA-C	-5.38	102.68	111.56
2	A	133	PRO	N-CA-CB	-5.14	97.85	103.25

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	B	3073	0	3117	24	0
2	A	3137	0	3056	54	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	1	0	0	0	0
4	A	64	0	0	1	0
4	B	114	0	0	1	0
All	All	6389	0	6173	77	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 6.

All (77) 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)
2:A:238:LEU:HD13	2:A:400:LEU:CD1	1.70	1.21
2:A:238:LEU:HD13	2:A:400:LEU:HD11	1.35	1.08
2:A:238:LEU:HD13	2:A:400:LEU:HD12	1.49	0.94
2:A:71:MET:HE2	2:A:94:PHE:HB3	1.60	0.83
2:A:238:LEU:CD1	2:A:400:LEU:CD1	2.61	0.72
2:A:238:LEU:CD1	2:A:400:LEU:HD12	2.19	0.71
2:A:51:MET:HE1	2:A:170:MET:SD	2.30	0.71
2:A:281:GLU:OE2	2:A:301:GLN:NE2	2.22	0.71
2:A:47:PHE:CD2	2:A:170:MET:HE1	2.28	0.68
2:A:96:TYR:OH	2:A:192:ASP:HB3	1.95	0.66
2:A:46:HIS:CE1	2:A:50:HIS:CE1	2.84	0.66
2:A:51:MET:CE	2:A:170:MET:SD	2.84	0.66
2:A:195:ARG:HG2	2:A:195:ARG:HH21	1.61	0.64
2:A:216:TYR:CD2	2:A:292:ARG:NH2	2.66	0.64
1:B:48:GLU:OE2	1:B:76:SER:HB3	2.02	0.59
2:A:335:LYS:HE3	2:A:377:GLN:HA	1.84	0.59
1:B:135:ARG:NH2	4:B:502:HOH:O	2.37	0.57
1:B:171:ALA:O	1:B:175:ARG:HG3	2.03	0.57
2:A:93:GLU:H	2:A:93:GLU:CD	2.13	0.55
1:B:70:LEU:HD11	1:B:96:GLU:HG3	1.87	0.55
1:B:263:SER:HA	4:A:649:HOH:O	2.07	0.55
1:B:20:PHE:CE1	2:A:347:GLU:HG3	2.43	0.53
2:A:258:LEU:HD11	2:A:321:LEU:HD21	1.90	0.53
2:A:99:LEU:HD11	2:A:185:LEU:HD21	1.90	0.53
2:A:238:LEU:CD1	2:A:400:LEU:HD11	2.23	0.53
2:A:47:PHE:CD2	2:A:170:MET:CE	2.91	0.53
2:A:35:ARG:HD2	2:A:82:GLU:HG2	1.91	0.53
2:A:31:LYS:HB2	2:A:361:LEU:HD11	1.90	0.51
2:A:89:ALA:HB2	2:A:350:MET:HE2	1.92	0.51
1:B:234:ILE:HG12	1:B:396:LEU:HD23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:268:THR:HG22	1:B:273:LYS:HD2	1.93	0.50
2:A:123:LEU:HD21	2:A:159:ARG:HA	1.92	0.50
1:B:98:PHE:HE2	1:B:184:LEU:HD21	1.77	0.50
2:A:54:LYS:HE3	2:A:118:GLU:OE1	2.12	0.50
2:A:130:GLN:HA	2:A:136:MET:HG3	1.95	0.49
2:A:50:HIS:HE1	2:A:125:GLU:OE1	1.96	0.48
2:A:113:GLU:OE2	2:A:113:GLU:N	2.44	0.47
2:A:114:ASP:HA	2:A:117:THR:HG22	1.96	0.47
2:A:15:ALA:HA	2:A:187:ALA:O	2.15	0.47
1:B:51:LEU:HD11	1:B:177:TYR:CE2	2.50	0.46
1:B:18:ARG:NH2	1:B:342:ASP:O	2.47	0.46
1:B:234:ILE:HG12	1:B:396:LEU:CD2	2.46	0.46
1:B:334:LEU:HD23	1:B:334:LEU:HA	1.86	0.45
2:A:256:GLN:HG2	2:A:287:LEU:HD23	1.98	0.45
1:B:318:LEU:HD23	1:B:318:LEU:HA	1.84	0.45
2:A:107:ARG:NH1	2:A:208:PRO:HD2	2.33	0.45
2:A:199:GLU:OE1	2:A:202:ARG:NH1	2.46	0.45
2:A:113:GLU:O	2:A:117:THR:HG22	2.17	0.44
2:A:195:ARG:HG2	2:A:195:ARG:NH2	2.30	0.44
2:A:51:MET:SD	2:A:115:PHE:HA	2.57	0.44
2:A:192:ASP:OD2	2:A:195:ARG:HD3	2.17	0.44
2:A:125:GLU:HG2	2:A:128:ARG:HH12	1.83	0.44
1:B:61:ARG:HE	1:B:61:ARG:HB2	1.52	0.44
1:B:224:VAL:CG1	1:B:400:VAL:CG2	2.96	0.44
2:A:38:THR:HG22	2:A:41:GLU:OE1	2.17	0.44
2:A:114:ASP:HA	2:A:117:THR:CG2	2.48	0.43
2:A:240:ALA:O	2:A:297:HIS:HA	2.17	0.43
2:A:47:PHE:CG	2:A:170:MET:HE1	2.53	0.43
1:B:105:LEU:O	1:B:173:TYR:OH	2.28	0.43
2:A:3:ARG:HA	2:A:3:ARG:HD3	1.78	0.43
2:A:47:PHE:HE1	2:A:118:GLU:HB3	1.83	0.43
1:B:100:LEU:HA	1:B:100:LEU:HD23	1.81	0.43
2:A:58:ASP:OD1	2:A:58:ASP:N	2.48	0.43
2:A:81:GLU:H	2:A:81:GLU:HG2	1.57	0.43
1:B:258:LEU:HD21	1:B:315:VAL:HG22	2.00	0.43
2:A:71:MET:HG3	2:A:73:ALA:HB2	2.01	0.43
1:B:32:VAL:HG11	1:B:82:TYR:HA	2.00	0.42
1:B:224:VAL:HG13	1:B:400:VAL:CG2	2.49	0.42
2:A:335:LYS:O	2:A:338:LEU:HB2	2.20	0.42
1:B:58:LEU:HD22	1:B:62:ALA:HB1	2.01	0.41
2:A:237:TYR:HB2	2:A:401:VAL:HB	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:41:GLU:H	1:B:41:GLU:CD	2.28	0.41
2:A:71:MET:CE	2:A:94:PHE:HB3	2.41	0.40
2:A:245:VAL:HG21	2:A:252:ARG:HA	2.04	0.40
1:B:142[A]:ARG:NH1	1:B:154:PRO:HD3	2.36	0.40
2:A:35:ARG:CD	2:A:82:GLU:HG2	2.50	0.40
2:A:123:LEU:CD2	2:A:159:ARG:HA	2.52	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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	B	400/423 (95%)	392 (98%)	8 (2%)	0	100	100
2	A	398/426 (93%)	377 (95%)	20 (5%)	1 (0%)	36	50
All	All	798/849 (94%)	769 (96%)	28 (4%)	1 (0%)	48	64

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A	133	PRO

5.3.2 Protein sidechains [i](#)

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	B	302/325 (93%)	302 (100%)	0	100	100
2	A	305/335 (91%)	300 (98%)	5 (2%)	55	76
All	All	607/660 (92%)	602 (99%)	5 (1%)	73	86

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	A	8	ARG
2	A	12	ARG
2	A	81	GLU
2	A	133	PRO
2	A	136	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
2	A	46	HIS
2	A	50	HIS
2	A	153	ASN
2	A	377	GLN

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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 1 ligands modelled in this entry, 1 is 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

There are no such residues in this entry.

5.8 Polymer linkage issues

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	B	401/423 (94%)	0.03	11 (2%) 56 52	21, 44, 63, 77	1 (0%)
2	A	402/426 (94%)	0.62	41 (10%) 12 9	30, 56, 83, 102	2 (0%)
All	All	803/849 (94%)	0.33	52 (6%) 25 21	21, 49, 79, 102	3 (0%)

All (52) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	278	TYR	5.7
1	B	267	PHE	5.5
2	A	234	ARG	4.3
2	A	165	LEU	4.1
2	A	160	GLU	3.9
1	B	271	ARG	3.8
2	A	228	ARG	3.7
2	A	47	PHE	3.7
2	A	162	ILE	3.4
2	A	129	TYR	3.4
1	B	219	GLU	3.2
2	A	133	PRO	3.2
2	A	117	THR	3.0
2	A	123	LEU	3.0
2	A	122	ILE	2.9
2	A	157	GLY	2.9
2	A	231	GLU	2.9
2	A	138	TYR	2.9
2	A	159	ARG	2.8
2	A	403	PRO	2.8
2	A	175	ARG	2.8
2	A	399	TYR	2.7
2	A	146	PHE	2.6
2	A	156	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
2	A	142	ARG	2.6
2	A	370	GLU	2.6
2	A	0	HIS	2.6
2	A	132	ARG	2.6
1	B	324	GLU	2.6
2	A	400	LEU	2.6
2	A	80	SER	2.5
1	B	231	GLN	2.5
2	A	161	SER	2.5
1	B	401	GLU	2.5
2	A	130	GLN	2.4
1	B	229	THR	2.3
1	B	387	HIS	2.3
2	A	222	ALA	2.3
2	A	393	LEU	2.3
2	A	144	ARG	2.3
1	B	277	VAL	2.3
2	A	155	VAL	2.2
2	A	401	VAL	2.2
2	A	397	LEU	2.2
2	A	173	TYR	2.2
2	A	230	TYR	2.2
2	A	116	GLN	2.1
2	A	127	ALA	2.1
2	A	81	GLU	2.1
2	A	218	PRO	2.1
2	A	235	ALA	2.1
1	B	400	VAL	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.

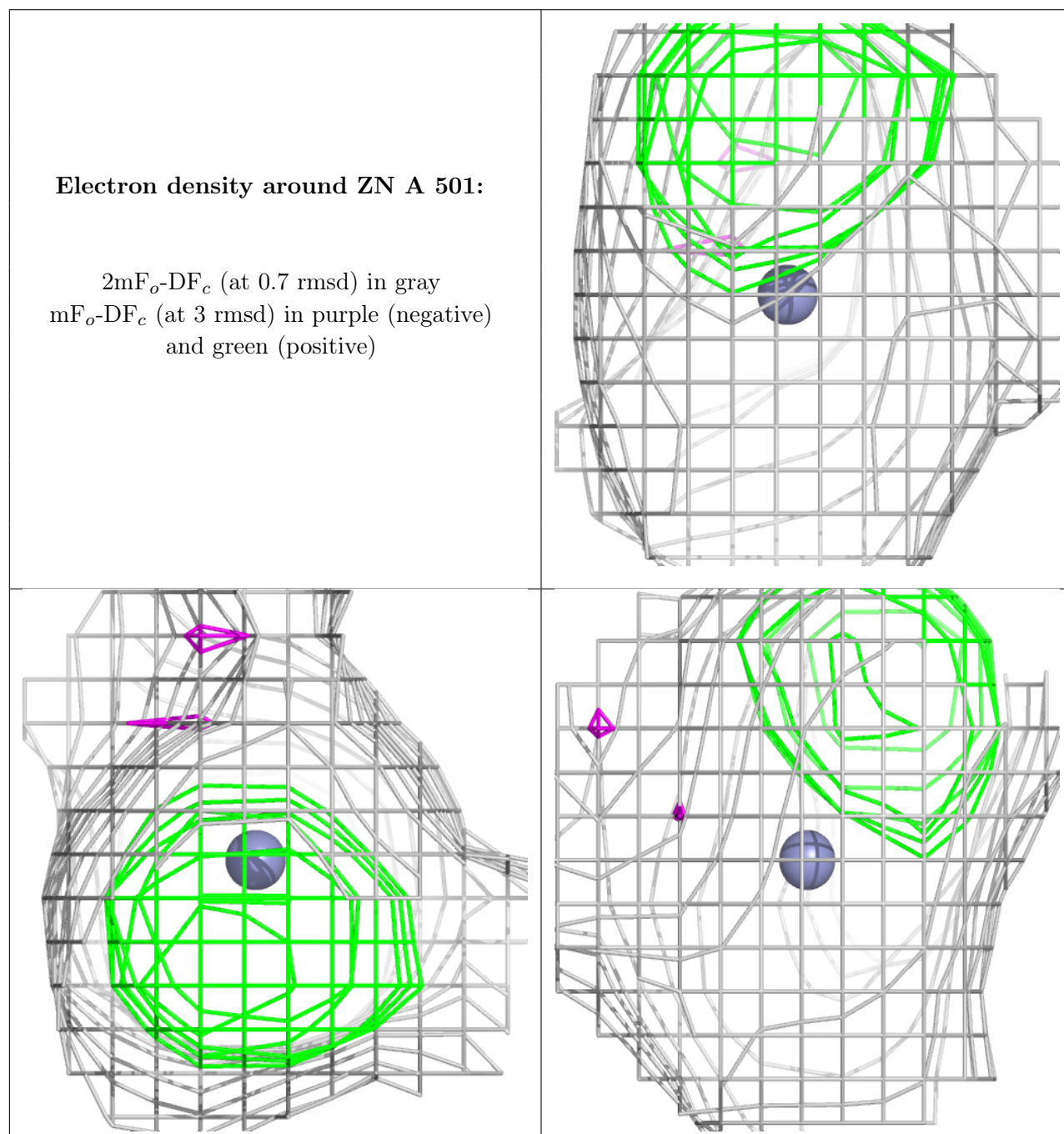
6.4 Ligands [i](#)

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
3	ZN	A	501	1/1	0.88	0.09	74,74,74,74	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 [i](#)

There are no such residues in this entry.