



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 03:44 AM UTC

PDB ID : 5FHX / pdb_00005fhx
Title : CRYSTAL STRUCTURE OF CODV IN COMPLEX WITH IL4 AT 2.55 Ang.
RESOLUTION.
Authors : Vallee, F.; Dupuy, A.; Rak, A.
Deposited on : 2015-12-22
Resolution : 2.55 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
Mogul	:	2022.3.0, CSD as543be (2022)
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

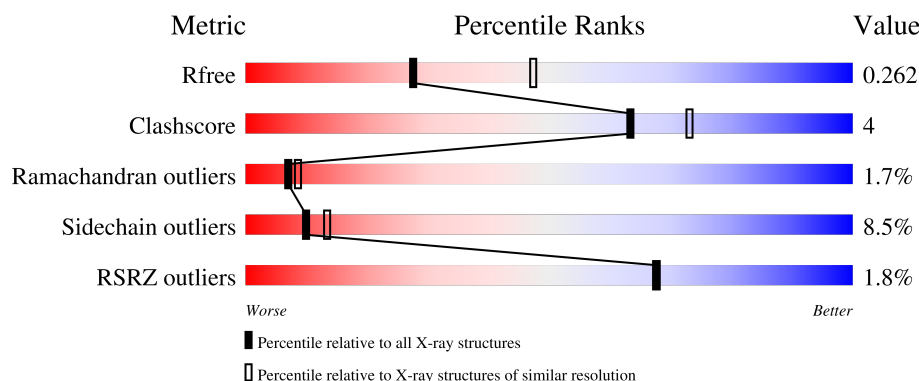
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.55 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	1091 (2.54-2.54)
Clashscore	190562	1120 (2.54-2.54)
Ramachandran outliers	187476	1106 (2.54-2.54)
Sidechain outliers	187428	1106 (2.54-2.54)
RSRZ outliers	180081	1091 (2.54-2.54)

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	124	6% 77% 19% ...
2	H	345	% 82% 14% ..
3	L	334	% 81% 16% .

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 6263 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 Interleukin-4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	122	Total	C	N	O	S	0	0	0
			992	619	181	186	6			

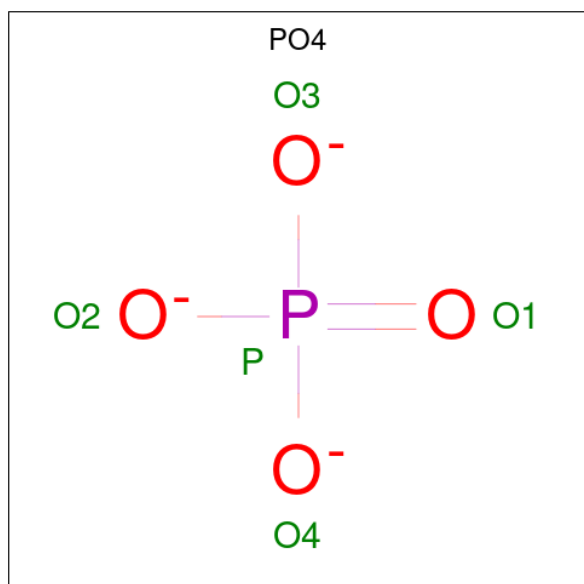
- Molecule 2 is a protein called antibody fragment heavy-chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	H	340	Total	C	N	O	S	0	0	0
			2590	1637	429	513	11			

- Molecule 3 is a protein called Antibody fragment light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	L	334	Total	C	N	O	S	0	0	0
			2543	1594	429	511	9			

- Molecule 4 is PHOSPHATE ION (CCD ID: PO4) (formula: O₄P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	H	1	Total	O	P	0	0
			5	4	1		
4	L	1	Total	O	P	0	0
			5	4	1		

- Molecule 5 is water.

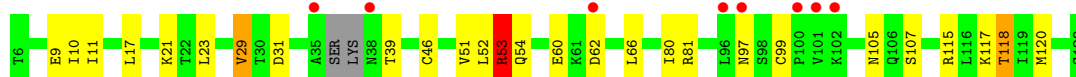
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	15	Total	O	0	0
			15	15		
5	H	55	Total	O	0	0
			55	55		
5	L	58	Total	O	0	0
			58	58		

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.

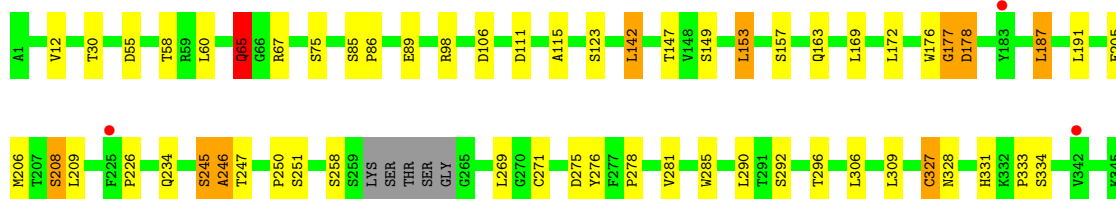
- Molecule 1: Interleukin-4

Chain A: 



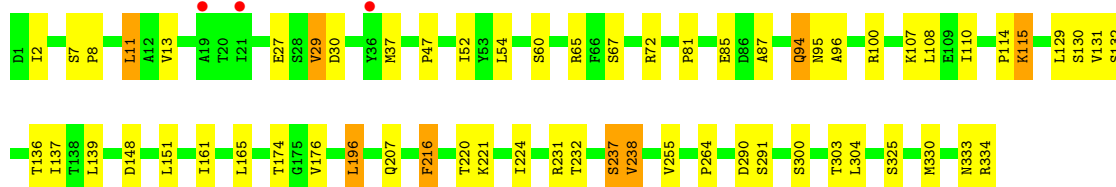
- Molecule 2: antibody fragment heavy-chain

Chain H: 



- Molecule 3: Antibody fragment light chain

Chain L: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	77.21Å 73.33Å 91.40Å 90.00° 112.72° 90.00°	Depositor
Resolution (Å)	23.15 – 2.55 23.15 – 2.55	Depositor EDS
% Data completeness (in resolution range)	99.9 (23.15-2.55) 99.7 (23.15-2.55)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.12	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.44 (at 2.57Å)	Xtriage
Refinement program	BUSTER 2.11.5	Depositor
R, R_{free}	0.184 , 0.249 0.197 , 0.262	Depositor DCC
R_{free} test set	1545 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	46.8	Xtriage
Anisotropy	0.612	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 55.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.023 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6263	wwPDB-VP
Average B, all atoms (Å ²)	61.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.12% 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 ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: PO4

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	2.07	9/1005 (0.9%)	1.79	8/1348 (0.6%)
2	H	0.84	0/2655	1.27	16/3614 (0.4%)
3	L	0.85	0/2601	1.22	12/3537 (0.3%)
All	All	1.14	9/6261 (0.1%)	1.35	36/8499 (0.4%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	53	ARG	C-N	-50.55	0.62	1.33
1	A	52	LEU	C-N	-19.40	1.06	1.33
1	A	39	THR	C-O	-15.78	1.00	1.23
1	A	39	THR	CB-CG2	-7.47	1.27	1.52
1	A	39	THR	N-CA	-6.41	1.36	1.46
1	A	39	THR	CB-OG1	-5.95	1.34	1.43
1	A	39	THR	CA-C	-5.94	1.45	1.53
1	A	39	THR	C-N	-5.60	1.26	1.33
1	A	39	THR	CA-CB	-5.37	1.45	1.53

All (36) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	53	ARG	O-C-N	-35.71	75.10	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	53	ARG	CA-C-N	12.80	145.99	121.54
1	A	53	ARG	C-N-CA	12.80	145.99	121.54
2	H	245	SER	CA-C-N	8.60	137.19	121.70
2	H	245	SER	C-N-CA	8.60	137.19	121.70
2	H	177	GLY	CA-C-N	8.36	136.74	121.70
2	H	177	GLY	C-N-CA	8.36	136.74	121.70
2	H	147	THR	CA-C-N	6.96	129.82	120.50
2	H	147	THR	C-N-CA	6.96	129.82	120.50
2	H	67	ARG	N-CA-C	-6.49	105.38	113.55
3	L	237	SER	N-CA-C	-6.42	98.75	108.96
3	L	148	ASP	CA-CB-CG	6.28	118.88	112.60
2	H	111	ASP	CA-CB-CG	5.99	118.59	112.60
3	L	237	SER	CA-C-N	-5.77	115.10	123.06
3	L	237	SER	C-N-CA	-5.77	115.10	123.06
3	L	264	PRO	CA-C-N	5.71	128.24	120.54
3	L	264	PRO	C-N-CA	5.71	128.24	120.54
2	H	178	ASP	CA-CB-CG	5.50	118.09	112.60
3	L	136	THR	CB-CA-C	5.45	119.14	110.19
2	H	106	ASP	N-CA-C	-5.23	105.26	111.69
2	H	55	ASP	CA-CB-CG	5.22	117.82	112.60
1	A	11	ILE	CA-C-N	5.21	127.26	120.28
1	A	11	ILE	C-N-CA	5.21	127.26	120.28
1	A	118	THR	CA-C-N	5.17	127.08	120.56
1	A	118	THR	C-N-CA	5.17	127.08	120.56
1	A	62	ASP	CA-CB-CG	5.16	117.76	112.60
3	L	114	PRO	CA-C-N	5.10	131.29	121.54
3	L	114	PRO	C-N-CA	5.10	131.29	121.54
2	H	187	LEU	CA-C-N	5.08	127.34	120.38
2	H	187	LEU	C-N-CA	5.08	127.34	120.38
2	H	60	LEU	CA-C-N	5.06	127.95	120.82
2	H	60	LEU	C-N-CA	5.06	127.95	120.82
2	H	296	THR	CB-CA-C	5.04	118.36	110.19
3	L	290	ASP	CA-C-N	5.03	127.33	120.54
3	L	290	ASP	C-N-CA	5.03	127.33	120.54
3	L	216	PHE	CA-CB-CG	5.02	118.82	113.80

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	53	ARG	Mainchain

5.2 Too-close contacts ⓘ

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	992	0	1003	6	0
2	H	2590	0	2516	24	0
3	L	2543	0	2476	19	0
4	H	5	0	0	0	0
4	L	5	0	0	0	0
5	A	15	0	0	0	0
5	H	55	0	0	0	0
5	L	58	0	0	0	0
All	All	6263	0	5995	45	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 4.

All (45) 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:H:271:CYS:HG	2:H:327:CYS:HG	0.98	0.95
1:A:46:CYS:HG	1:A:99:CYS:HG	0.91	0.86
2:H:142:LEU:HD12	2:H:209:LEU:HD11	1.58	0.84
2:H:250:PRO:HB3	2:H:276:TYR:HB3	1.65	0.79
2:H:245:SER:HA	2:H:246:ALA:HB3	1.78	0.64
2:H:187:LEU:HB3	2:H:191:LEU:HD13	1.83	0.61
2:H:247:THR:HG22	2:H:278:PRO:HD3	1.83	0.60
2:H:65:GLN:HB2	3:L:85:GLU:HB3	1.83	0.60
2:H:245:SER:HA	2:H:246:ALA:CB	2.33	0.59
3:L:2:ILE:HG12	3:L:27:GLU:HB2	1.87	0.57
2:H:142:LEU:CD1	2:H:206:MET:HB3	2.38	0.54
3:L:129:LEU:HD21	3:L:137:ILE:HD12	1.90	0.53
2:H:157:SER:HB3	2:H:176:TRP:HA	1.91	0.53
2:H:275:ASP:HB3	2:H:306:LEU:HD13	1.90	0.52
2:H:226:PRO:HG3	3:L:54:LEU:HG	1.92	0.51
2:H:142:LEU:HD13	2:H:206:MET:HB3	1.93	0.50
1:A:10:ILE:HD13	1:A:120:MET:HE2	1.93	0.50
2:H:85:SER:N	2:H:86:PRO:HD3	2.27	0.49
3:L:139:LEU:HD22	3:L:220:THR:HG21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:11:LEU:HD23	3:L:108:LEU:HD13	1.95	0.48
2:H:163:GLN:HB2	2:H:169:LEU:HD23	1.95	0.48
2:H:271:CYS:CB	2:H:327:CYS:HG	2.25	0.48
3:L:207:GLN:HB2	3:L:216:PHE:CD2	2.49	0.48
1:A:60:GLU:HG3	1:A:80:ILE:HG21	1.96	0.47
3:L:94:GLN:HG2	3:L:96:ALA:H	1.77	0.47
3:L:87:ALA:HB2	3:L:110:ILE:HD12	1.96	0.46
3:L:238:VAL:HG22	3:L:330:MET:HG3	1.97	0.46
2:H:65:GLN:H	2:H:65:GLN:HG2	1.50	0.46
3:L:95:ASN:HA	3:L:100:ARG:HG2	1.98	0.46
3:L:196:LEU:C	3:L:196:LEU:HD13	2.41	0.45
2:H:271:CYS:HG	2:H:327:CYS:CB	2.29	0.45
2:H:172:LEU:HB3	2:H:191:LEU:HD21	1.98	0.45
3:L:8:PRO:HG2	3:L:11:LEU:HD12	1.99	0.44
3:L:29:VAL:HG11	3:L:37:MET:HB2	1.99	0.43
2:H:234:GLN:HA	3:L:47:PRO:HG3	1.99	0.43
3:L:65:ARG:HD2	3:L:81:PRO:O	2.19	0.43
1:A:29:VAL:HG22	1:A:51:VAL:CG1	2.49	0.42
3:L:165:LEU:HA	3:L:176:VAL:HG21	2.02	0.42
1:A:17:LEU:HD23	1:A:117:LYS:HD2	2.01	0.41
2:H:285:TRP:HB3	2:H:290:LEU:HD23	2.02	0.41
3:L:115:LYS:HA	3:L:115:LYS:HD3	1.91	0.41
2:H:331:HIS:CD2	2:H:333:PRO:HD2	2.56	0.41
1:A:31:ASP:HB2	1:A:107:SER:HB2	2.03	0.40
2:H:115:ALA:HA	3:L:161:ILE:HG21	2.04	0.40
2:H:153:LEU:HD12	2:H:153:LEU:HA	1.93	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	A	118/124 (95%)	111 (94%)	4 (3%)	3 (2%)	4	4
2	H	336/345 (97%)	309 (92%)	21 (6%)	6 (2%)	6	7
3	L	332/334 (99%)	315 (95%)	13 (4%)	4 (1%)	10	13
All	All	786/803 (98%)	735 (94%)	38 (5%)	13 (2%)	7	8

All (13) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	53	ARG
2	H	178	ASP
3	L	115	LYS
1	A	105	ASN
2	H	177	GLY
2	H	246	ALA
3	L	60	SER
3	L	232	THR
1	A	54	GLN
2	H	334	SER
3	L	72	ARG
2	H	65	GLN
2	H	208	SER

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	111/113 (98%)	102 (92%)	9 (8%)	11	15
2	H	290/294 (99%)	269 (93%)	21 (7%)	13	18
3	L	285/285 (100%)	257 (90%)	28 (10%)	7	9
All	All	686/692 (99%)	628 (92%)	58 (8%)	10	13

All (58) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	9	GLU
1	A	21	LYS
1	A	23	LEU
1	A	29	VAL
1	A	66	LEU
1	A	81	ARG
1	A	97	ASN
1	A	115	ARG
1	A	118	THR
2	H	12	VAL
2	H	30	THR
2	H	58	THR
2	H	65	GLN
2	H	75	SER
2	H	89	GLU
2	H	98	ARG
2	H	123	SER
2	H	142	LEU
2	H	149	SER
2	H	153	LEU
2	H	205	GLU
2	H	208	SER
2	H	251	SER
2	H	258	SER
2	H	269	LEU
2	H	281	VAL
2	H	292	SER
2	H	309	LEU
2	H	327	CYS
2	H	328	ASN
3	L	7	SER
3	L	11	LEU
3	L	13	VAL
3	L	29	VAL
3	L	30	ASP
3	L	52	ILE
3	L	67	SER
3	L	94	GLN
3	L	107	LYS
3	L	130	SER
3	L	131	VAL
3	L	132	SER
3	L	151	LEU

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Mol	Chain	Res	Type
3	L	174	THR
3	L	196	LEU
3	L	221	LYS
3	L	224	ILE
3	L	231	ARG
3	L	237	SER
3	L	238	VAL
3	L	255	VAL
3	L	291	SER
3	L	300	SER
3	L	303	THR
3	L	304	LEU
3	L	325	SER
3	L	333	ASN
3	L	334	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
2	H	5	GLN
2	H	127	GLN
2	H	201	GLN
2	H	330	ASN
2	H	335	ASN
3	L	94	GLN
3	L	145	GLN
3	L	171	ASN
3	L	197	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 [i](#)

2 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
4	PO4	H	401	-	4,4,4	2.61	3 (75%)	6,6,6	0.54	0
4	PO4	L	401	-	4,4,4	2.55	3 (75%)	6,6,6	0.85	0

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	H	401	PO4	P-O1	4.31	1.60	1.50
4	L	401	PO4	P-O1	4.17	1.60	1.50
4	L	401	PO4	P-O4	2.05	1.60	1.54
4	L	401	PO4	P-O2	2.03	1.60	1.54
4	H	401	PO4	P-O3	2.03	1.60	1.54
4	H	401	PO4	P-O4	2.01	1.60	1.54

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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	52:LEU	C	53:ARG	N	1.06
1	A	53:ARG	C	54:GLN	N	0.62

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	122/124 (98%)	0.33	8 (6%) 24 24	25, 61, 98, 123	0
2	H	340/345 (98%)	0.03	3 (0%) 81 83	25, 63, 89, 115	0
3	L	334/334 (100%)	0.02	3 (0%) 81 83	28, 62, 95, 106	0
All	All	796/803 (99%)	0.07	14 (1%) 67 68	25, 62, 94, 123	0

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	38	ASN	4.9
1	A	96	LEU	4.3
2	H	225	PHE	3.3
2	H	342	VAL	3.1
1	A	62	ASP	2.9
1	A	101	VAL	2.7
1	A	100	PRO	2.6
3	L	19	ALA	2.6
1	A	102	LYS	2.5
1	A	35	ALA	2.3
3	L	21	ILE	2.3
3	L	36	TYR	2.3
2	H	183	TYR	2.2
1	A	97	ASN	2.0

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

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
4	PO4	L	401	5/5	0.79	0.19	93,94,97,97	0
4	PO4	H	401	5/5	0.81	0.20	118,120,120,121	0

6.5 Other polymers [i](#)

There are no such residues in this entry.