



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2018 – 09:57 pm GMT

PDB ID : 5EJV
Title : RORy in complex with T090131718 and Coactivator peptide EBI96
Authors : Marcotte, D.M.
Deposited on : 2015-11-02
Resolution : 2.58 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7.3 (157068), CSD as539be (2018)
Xtriage (Phenix) : 1.13
EDS : trunk30967
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk30967

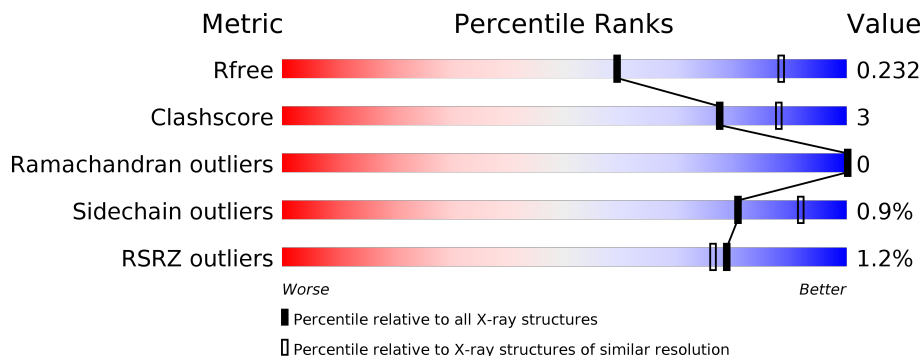
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.58 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}	111664	3182 (2.60-2.56)
Clashscore	122126	3541 (2.60-2.56)
Ramachandran outliers	120053	3489 (2.60-2.56)
Sidechain outliers	120020	3489 (2.60-2.56)
RSRZ outliers	108989	3120 (2.60-2.56)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	262	 85% 9% 6%
1	B	262	 86% 8% 6%
2	C	19	 47% 11% 42%
2	D	19	 58% 5% 37%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	444	A	601	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4257 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 Nuclear receptor ROR-gamma.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	245	1993	1273	356	350	14	0	0	0
1	B	245	1990	1268	355	353	14	0	0	0

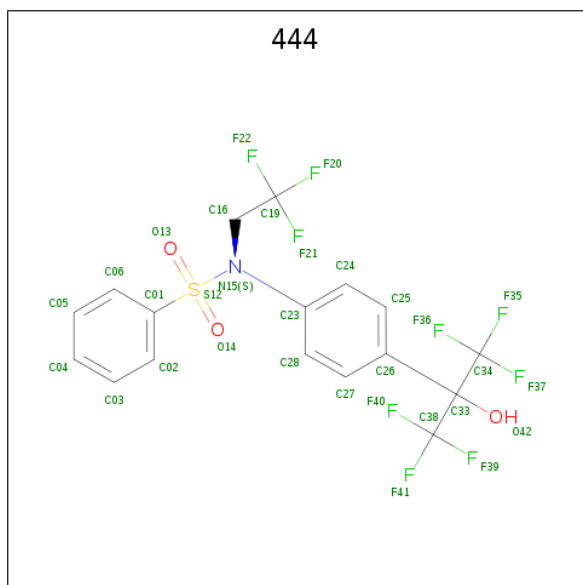
There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	257	GLY	-	expression tag	UNP P51449
A	258	PRO	-	expression tag	UNP P51449
B	257	GLY	-	expression tag	UNP P51449
B	258	PRO	-	expression tag	UNP P51449

- Molecule 2 is a protein called EBI96 Coactivator Peptide.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	C	11	86	60	11	15	0	0	0
2	D	12	94	65	12	17	0	0	0

- Molecule 3 is N-(2,2,2-TRIFLUOROETHYL)-N-{4-[2,2,2-TRIFLUORO-1-HYDROXY-1-(TRIFLUOROMETHYL)ETHYL]PHENYL}BENZENESULFONAMIDE (three-letter code: 444) (formula: C₁₇H₁₂F₉NO₃S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	F	N	O			S
3	A	1	31	17	9	1	3	1	0	0
3	B	1	31	17	9	1	3	1	0	0

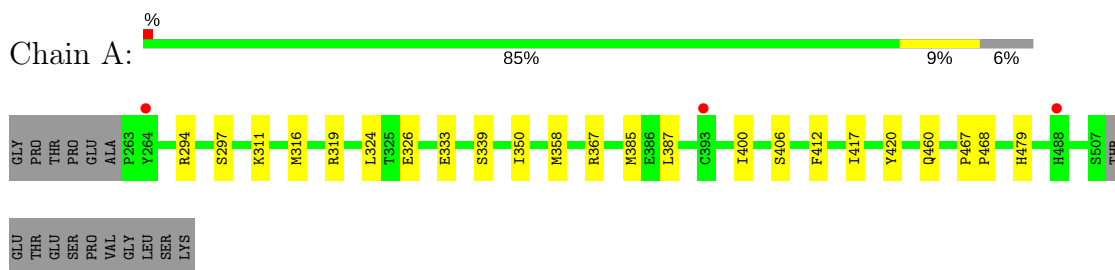
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	15	Total	O	0	0
			15	15		
4	B	15	Total	O	0	0
			15	15		
4	D	2	Total	O	0	0
			2	2		

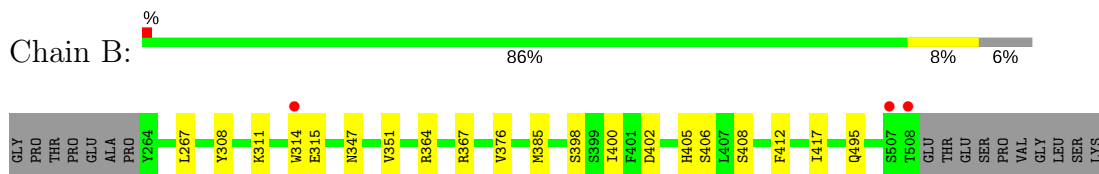
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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.

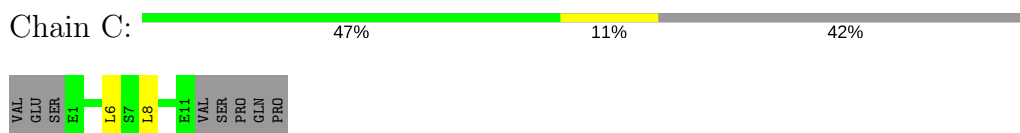
- Molecule 1: Nuclear receptor ROR-gamma



- Molecule 1: Nuclear receptor ROR-gamma



- Molecule 2: EBI96 Coactivator Peptide



- Molecule 2: EBI96 Coactivator Peptide



4 Data and refinement statistics

Property	Value	Source
Space group	P 41	Depositor
Cell constants a, b, c, α , β , γ	63.14Å 63.14Å 160.44Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	63.14 – 2.58 49.61 – 2.58	Depositor EDS
% Data completeness (in resolution range)	99.9 (63.14-2.58) 99.9 (49.61-2.58)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	0.14	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.59 (at 2.58Å)	Xtrriage
Refinement program	REFMAC 5.8.0131	Depositor
R, R_{free}	0.179 , 0.231 0.184 , 0.232	Depositor DCC
R_{free} test set	970 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å ²)	45.2	Xtrriage
Anisotropy	0.032	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 35.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.059 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4257	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.65% 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:
444

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	1.02	5/2038 (0.2%)	1.09	9/2748 (0.3%)
1	B	1.01	2/2033 (0.1%)	1.08	9/2741 (0.3%)
2	C	0.98	0/88	0.90	0/119
2	D	1.18	0/96	1.02	0/130
All	All	1.02	7/4255 (0.2%)	1.08	18/5738 (0.3%)

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	398	SER	CB-OG	-7.49	1.32	1.42
1	B	402	ASP	CB-CG	6.59	1.65	1.51
1	A	460	GLN	CG-CD	6.21	1.65	1.51
1	A	333	GLU	CD-OE2	6.01	1.32	1.25
1	A	406	SER	CB-OG	-5.43	1.35	1.42
1	A	326	GLU	CD-OE1	5.22	1.31	1.25
1	A	420	TYR	CB-CG	-5.20	1.43	1.51

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	364	ARG	NE-CZ-NH1	8.98	124.79	120.30
1	B	367	ARG	NE-CZ-NH2	-7.45	116.57	120.30
1	A	367	ARG	NE-CZ-NH1	7.42	124.01	120.30
1	B	364	ARG	NE-CZ-NH2	-7.09	116.75	120.30
1	B	367	ARG	NE-CZ-NH1	6.45	123.53	120.30
1	B	398	SER	CB-CA-C	-6.43	97.89	110.10
1	A	479	HIS	N-CA-CB	6.35	122.02	110.60
1	B	314	TRP	CB-CA-C	6.28	122.97	110.40
1	A	358	MET	CG-SD-CE	-6.03	90.55	100.20
1	A	406	SER	CB-CA-C	-5.90	98.89	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	294	ARG	NE-CZ-NH1	5.87	123.23	120.30
1	A	385	MET	CB-CA-C	-5.56	99.27	110.40
1	A	460	GLN	CA-CB-CG	5.21	124.87	113.40
1	A	387	LEU	CA-CB-CG	5.21	127.28	115.30
1	B	385	MET	CB-CA-C	-5.18	100.05	110.40
1	A	316	MET	CG-SD-CE	5.10	108.36	100.20
1	B	495	GLN	N-CA-CB	-5.06	101.49	110.60
1	B	406	SER	CB-CA-C	-5.03	100.54	110.10

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	1993	0	1988	10	0
1	B	1990	0	1982	7	0
2	C	86	0	87	3	0
2	D	94	0	96	1	0
3	A	31	0	11	12	0
3	B	31	0	12	3	0
4	A	15	0	0	0	0
4	B	15	0	0	0	0
4	D	2	0	0	1	0
All	All	4257	0	4176	27	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 3.

All (27) 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)
3:A:601:444:F41	3:A:601:444:F39	1.38	1.19
3:A:601:444:F40	3:A:601:444:F39	1.40	1.16
3:A:601:444:F39	3:A:601:444:C38	0.74	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:601:444:F39	3:A:601:444:C33	1.97	1.02
1:A:311:LYS:HE2	1:A:319:ARG:NH1	1.99	0.77
1:B:400:ILE:HD13	3:B:601:444:H161	1.73	0.71
1:A:400:ILE:HD13	3:A:601:444:H161	1.71	0.71
1:B:400:ILE:HD13	3:B:601:444:C16	2.27	0.65
1:A:350:ILE:HD11	2:C:6:LEU:HD21	1.81	0.61
3:B:601:444:O14	3:B:601:444:H24	2.01	0.61
3:A:601:444:C28	3:A:601:444:H02	2.39	0.53
2:D:2:PHE:N	4:D:101:HOH:O	2.44	0.50
1:A:324:LEU:HD22	3:A:601:444:H03	1.93	0.50
1:B:347:ASN:O	1:B:351:VAL:HG23	2.13	0.48
3:A:601:444:C19	3:A:601:444:C24	2.89	0.48
1:A:400:ILE:HD13	3:A:601:444:C16	2.41	0.47
1:A:324:LEU:HD22	3:A:601:444:C03	2.46	0.46
1:B:405:HIS:O	1:B:408:SER:OG	2.29	0.46
3:A:601:444:H24	3:A:601:444:F22	2.07	0.45
1:A:324:LEU:HB2	3:A:601:444:H03	1.98	0.44
1:B:412:PHE:HB3	1:B:417:ILE:HG13	1.98	0.44
1:A:412:PHE:HB3	1:A:417:ILE:HG13	2.01	0.42
1:B:308:TYR:HA	1:B:311:LYS:HD2	2.02	0.42
1:A:350:ILE:HD11	2:C:6:LEU:CD2	2.50	0.41
1:A:467:PRO:HA	1:A:468:PRO:HD3	1.99	0.41
1:B:311:LYS:HG2	1:B:315:GLU:CD	2.41	0.41
2:C:8:LEU:HD23	2:C:8:LEU:HA	1.95	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	243/262 (93%)	238 (98%)	5 (2%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	243/262 (93%)	239 (98%)	4 (2%)	0	100	100
2	C	9/19 (47%)	9 (100%)	0	0	100	100
2	D	10/19 (53%)	10 (100%)	0	0	100	100
All	All	505/562 (90%)	496 (98%)	9 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	A	216/233 (93%)	214 (99%)	2 (1%)	81	92
1	B	216/233 (93%)	214 (99%)	2 (1%)	81	92
2	C	9/18 (50%)	9 (100%)	0	100	100
2	D	11/18 (61%)	11 (100%)	0	100	100
All	All	452/502 (90%)	448 (99%)	4 (1%)	81	92

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	297	SER
1	A	339	SER
1	B	267	LEU
1	B	376	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	451	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates 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	$\# Z > 2$
3	444	A	601	-	32,32,32	6.01	13 (40%)	49,52,52	2.46	13 (26%)
3	444	B	601	-	32,32,32	6.35	16 (50%)	49,52,52	2.33	12 (24%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	444	A	601	-	-	0/44/45/45	0/2/2/2
3	444	B	601	-	-	0/44/45/45	0/2/2/2

All (29) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	601	444	C01-S12	-20.91	1.46	1.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	601	444	C01-S12	-16.57	1.53	1.76
3	A	601	444	F39-C38	-16.39	0.74	1.33
3	B	601	444	F39-C38	-13.75	0.84	1.33
3	B	601	444	F41-C38	-11.83	0.91	1.33
3	B	601	444	F22-C19	-11.08	0.86	1.33
3	A	601	444	F41-C38	-10.98	0.94	1.33
3	B	601	444	F20-C19	-10.01	0.91	1.33
3	A	601	444	F40-C38	-9.85	0.98	1.33
3	B	601	444	F35-C34	-8.54	1.02	1.33
3	B	601	444	C23-N15	-8.10	1.34	1.44
3	B	601	444	C33-C26	-7.81	1.42	1.53
3	B	601	444	F40-C38	-7.49	1.06	1.33
3	A	601	444	C23-N15	-7.47	1.35	1.44
3	A	601	444	C33-C26	-6.91	1.43	1.53
3	B	601	444	F21-C19	-5.34	1.10	1.33
3	A	601	444	F36-C34	-4.77	1.16	1.33
3	A	601	444	F22-C19	-4.63	1.13	1.33
3	B	601	444	F36-C34	-2.90	1.23	1.33
3	B	601	444	C34-C33	-2.84	1.49	1.54
3	A	601	444	F21-C19	-2.54	1.22	1.33
3	A	601	444	O42-C33	-2.38	1.36	1.41
3	B	601	444	F37-C34	-2.18	1.25	1.33
3	A	601	444	C16-C19	2.90	1.54	1.50
3	B	601	444	O13-S12	4.48	1.49	1.43
3	A	601	444	O13-S12	5.20	1.49	1.43
3	B	601	444	O14-S12	5.35	1.50	1.43
3	A	601	444	O14-S12	5.45	1.50	1.43
3	B	601	444	S12-N15	10.02	1.79	1.65

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	601	444	O14-S12-O13	-8.19	106.05	119.50
3	A	601	444	O14-S12-O13	-6.07	109.53	119.50
3	A	601	444	O42-C33-C38	-5.37	93.51	105.98
3	B	601	444	F36-C34-C33	-4.66	102.73	111.87
3	B	601	444	O42-C33-C34	-3.33	98.24	105.98
3	A	601	444	C24-C23-N15	-2.68	116.12	120.27
3	A	601	444	F40-C38-C33	-2.62	106.73	111.87
3	B	601	444	O13-S12-C01	-2.59	104.69	108.02
3	A	601	444	F22-C19-C16	-2.58	107.76	112.10
3	A	601	444	O42-C33-C34	-2.52	100.13	105.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	601	444	C02-C01-S12	-2.50	117.11	119.77
3	B	601	444	C03-C02-C01	-2.05	116.81	118.95
3	B	601	444	O14-S12-C01	2.01	110.60	108.02
3	B	601	444	C19-C16-N15	2.64	114.76	112.17
3	A	601	444	C34-C33-C26	2.66	113.52	110.20
3	A	601	444	C28-C23-N15	2.69	124.43	120.27
3	A	601	444	C23-N15-S12	2.96	124.09	117.74
3	B	601	444	C01-S12-N15	3.08	111.15	106.79
3	B	601	444	O14-S12-N15	3.42	111.01	106.79
3	B	601	444	C38-C33-C26	4.59	115.93	110.20
3	B	601	444	O13-S12-N15	5.08	113.06	106.79
3	B	601	444	C34-C33-C26	6.09	117.80	110.20
3	A	601	444	C38-C33-C34	6.18	118.48	110.24
3	A	601	444	O14-S12-N15	6.94	115.36	106.79
3	A	601	444	C38-C33-C26	7.85	119.99	110.20

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 15 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	601	444	12	0
3	B	601	444	3	0

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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	245/262 (93%)	0.36	3 (1%) 79 76	25, 42, 60, 109	0
1	B	245/262 (93%)	0.36	3 (1%) 79 76	29, 45, 65, 91	0
2	C	11/19 (57%)	0.27	0 100 100	42, 52, 76, 89	0
2	D	12/19 (63%)	0.38	0 100 100	40, 47, 63, 74	0
All	All	513/562 (91%)	0.36	6 (1%) 79 76	25, 44, 65, 109	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	507	SER	3.1
1	A	488	HIS	3.1
1	A	393	CYS	3.0
1	B	314	TRP	2.9
1	A	264	TYR	2.4
1	B	508	THR	2.4

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 carbohydrates 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(Å ²)	Q < 0.9
3	444	A	601	31/31	0.78	0.31	70,117,151,156	0
3	444	B	601	31/31	0.86	0.25	83,104,123,126	0

6.5 Other polymers [i](#)

There are no such residues in this entry.