Full wwPDB X-ray Structure Validation Report (i)

Jan 31, 2016 – 08:36 PM GMT

PDB ID	:	1L2I
Title	:	Human Estrogen Receptor alpha Ligand-binding Domain in Complex with (R, R)-5,11-cis-diethyl-5,6,11,12-tetrahydrochrysene-2,8-diol and a Glucocorticoid Receptor Interacting Protein 1 NR box II Peptide
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Deposited on	:	2002-02-21
Resolution	:	1.95 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
http://wwpdb.org/validation/2016/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

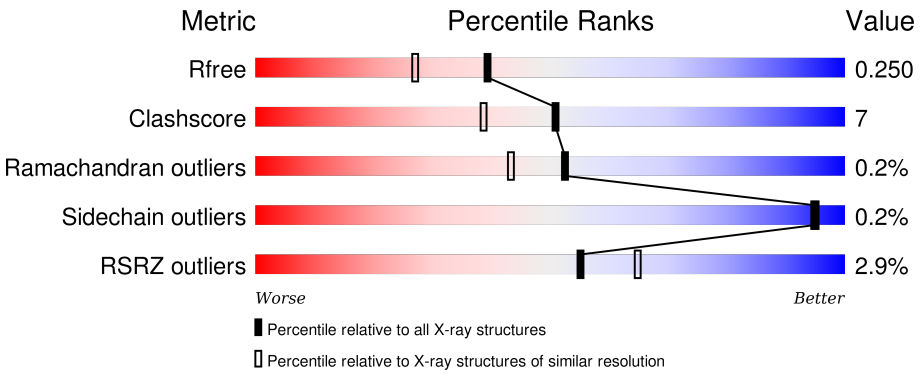
MolProbity	:	4.02b-467
Mogul	:	1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20026688
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	trunk26865

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 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}	91344	1833 (1.96-1.96)
Clashscore	102246	1953 (1.96-1.96)
Ramachandran outliers	100387	1936 (1.96-1.96)
Sidechain outliers	100360	1936 (1.96-1.96)
RSRZ outliers	91569	1835 (1.96-1.96)

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 <=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	261	3% 74% 16% 10%
1	B	261	2% 78% 10% 11%
2	C	13	8% 77% 23%
2	D	13	8% 69% 8% 23%

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 4043 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 ESTROGEN RECEPTOR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	234	1809	1159	315	316	19	0	4	0
1	B	232	1857	1190	318	330	19	0	2	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	294	MET	-	CLONING ARTIFACT	UNP P03372
A	295	ASP	-	CLONING ARTIFACT	UNP P03372
A	296	PRO	-	CLONING ARTIFACT	UNP P03372
A	417	CCS	CYS	MODIFIED RESIDUE	UNP P03372
B	294	MET	-	CLONING ARTIFACT	UNP P03372
B	295	ASP	-	CLONING ARTIFACT	UNP P03372
B	296	PRO	-	CLONING ARTIFACT	UNP P03372
B	417	CCS	CYS	MODIFIED RESIDUE	UNP P03372

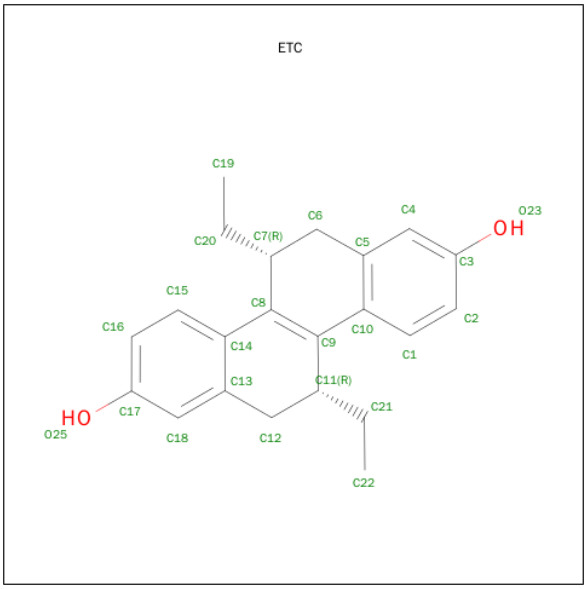
- Molecule 2 is a protein called GLUCOCORTICOID RECEPTOR-INTERACTING PROTEIN 1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	C	10	80	51	16	13	0	0	0
2	D	10	82	53	18	11	0	0	0

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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

- Molecule 4 is (R,R)-5,11-CIS-DIETHYL-5,6,11,12-TETRAHYDROCHRYSENE-2,8-DIOL (three-letter code: ETC) (formula: $C_{22}H_{24}O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
4	A	1	24	22	2	0	0
			Total	C	O		
4	B	1	24	22	2	0	0

- Molecule 5 is water.

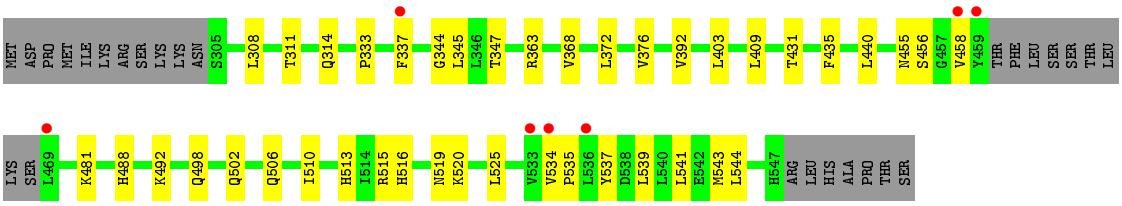
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
5	A	70	70	70	0	0
			Total	O		
5	B	92	92	92	0	0
			Total	O		
5	C	2	2	2	0	0
			Total	O		
5	D	2	2	2	0	0

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 errors 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.

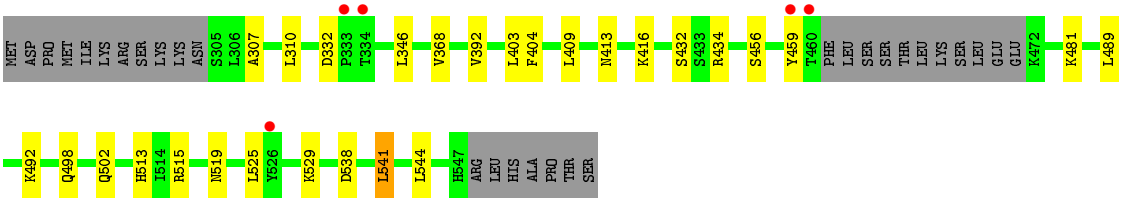
- Molecule 1: ESTROGEN RECEPTOR

Chain A:



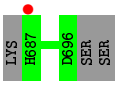
- Molecule 1: ESTROGEN RECEPTOR

Chain B:



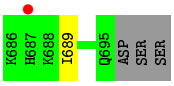
- Molecule 2: GLUCOCORTICOID RECEPTOR-INTERACTING PROTEIN 1

Chain C:



- Molecule 2: GLUCOCORTICOID RECEPTOR-INTERACTING PROTEIN 1

Chain D:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	54.55Å 82.60Å 59.04Å 90.00° 111.53° 90.00°	Depositor
Resolution (Å)	46.80 – 1.95 46.80 – 1.95	Depositor EDS
% Data completeness (in resolution range)	97.1 (46.80-1.95) 97.8 (46.80-1.95)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.07	Depositor
$< I/\sigma(I) >$ [1]	2.99 (at 1.95Å)	Xtriage
Refinement program	CNS 1.0, REFMAC	Depositor
R, R_{free}	0.203 , 0.243 0.207 , 0.250	Depositor DCC
R_{free} test set	2304 reflections (6.67%)	DCC
Wilson B-factor (Å^2)	29.3	Xtriage
Anisotropy	0.059	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.35 , 57.0	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning[2]	$< \|L\| > = 0.50$, $< L^2 > = 0.33$	Xtriage
Outliers	0 of 34533 reflections	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	4043	wwPDB-VP
Average B, all atoms (Å^2)	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.97% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 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: ETC, CCS, CL

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	0.29	0/1835	0.51	0/2487
1	B	0.30	0/1881	0.52	0/2543
2	C	0.30	0/80	0.46	0/107
2	D	0.28	0/83	0.50	0/111
All	All	0.30	0/3879	0.51	0/5248

There are no bond length outliers.

There are no bond angle outliers.

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	1809	0	1797	33	0
1	B	1857	0	1890	21	0
2	C	80	0	79	0	0
2	D	82	0	82	1	0
3	A	1	0	0	0	0
4	A	24	0	23	6	0
4	B	24	0	24	4	0
5	A	70	0	0	1	0
5	B	92	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	C	2	0	0	0	0
5	D	2	0	0	0	0
All	All	4043	0	3895	54	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 7.

All (54) 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:519:ASN:HD22	1:B:519:ASN:HD22	1.05	0.96
1:A:519:ASN:ND2	1:B:519:ASN:HD22	1.85	0.71
1:B:525:LEU:HD23	1:B:544:LEU:HD13	1.74	0.70
1:A:368:VAL:HG12	5:A:112:HOH:O	1.91	0.69
1:A:519:ASN:HD22	1:B:519:ASN:ND2	1.86	0.69
1:A:347:THR:HG21	1:A:534:VAL:HG13	1.76	0.68
1:B:489:LEU:O	1:B:492[B]:LYS:HG2	1.95	0.65
1:A:525:LEU:HD13	4:A:600:ETC:H18	1.78	0.64
1:B:525:LEU:HD13	4:B:800:ETC:H18	1.82	0.62
1:B:403:LEU:HD13	1:B:409:LEU:HD13	1.84	0.58
1:A:456:SER:HA	1:A:515:ARG:NH2	2.18	0.57
1:A:525:LEU:HD23	1:A:544:LEU:HD13	1.85	0.57
1:A:488:HIS:NE2	1:A:492:LYS:HE3	2.22	0.55
1:A:525:LEU:HG	1:A:544:LEU:HD22	1.90	0.54
1:B:498:GLN:O	1:B:502:GLN:HG3	2.09	0.52
1:A:516:HIS:CE1	1:A:520:LYS:HE3	2.44	0.52
4:A:600:ETC:C19	4:A:600:ETC:H15	2.40	0.51
1:A:455:ASN:O	1:A:458:VAL:HG12	2.11	0.50
1:A:456:SER:HA	1:A:515:ARG:HH22	1.77	0.49
1:B:538:ASP:HB3	2:D:689:ILE:HD11	1.95	0.48
1:A:513:HIS:CD2	1:B:459:TYR:HD2	2.32	0.47
1:B:529:LYS:NZ	1:B:541:LEU:HD21	2.30	0.47
1:A:347:THR:HA	4:A:600:ETC:H223	1.96	0.47
1:A:308:LEU:HA	1:A:481:LYS:HD2	1.95	0.47
1:A:392:VAL:HG11	1:A:431:THR:HG22	1.96	0.47
1:A:506:GLN:O	1:A:510:ILE:HG12	2.14	0.46
1:B:310:LEU:O	1:B:481:LYS:CE	2.63	0.46
1:B:368:VAL:HG22	5:B:64:HOH:O	2.15	0.46
1:B:346:LEU:HB3	4:B:800:ETC:H212	1.98	0.46
1:B:413:ASN:HA	1:B:416:LYS:HE2	1.98	0.45
1:A:333:PRO:HB3	1:A:345:LEU:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:435:PHE:CD1	1:A:440:LEU:HD22	2.51	0.45
4:A:600:ETC:H15	4:A:600:ETC:H192	1.99	0.44
1:B:456:SER:HA	1:B:515:ARG:NH2	2.31	0.44
1:A:372:LEU:O	1:A:376:VAL:HG23	2.17	0.44
1:A:363[B]:ARG:HG2	1:A:363[B]:ARG:HH11	1.83	0.44
1:A:403:LEU:HD13	1:A:409:LEU:HD13	2.00	0.44
1:A:308:LEU:HA	1:A:481:LYS:CD	2.48	0.44
4:B:800:ETC:C19	4:B:800:ETC:H15	2.48	0.43
1:A:516:HIS:O	1:A:520:LYS:HG2	2.18	0.43
1:A:311:THR:OG1	1:A:314:GLN:HG3	2.18	0.43
1:A:337:PHE:HE2	1:A:345:LEU:HD12	1.83	0.43
1:B:434:ARG:NH1	5:B:157:HOH:O	2.51	0.43
4:A:600:ETC:C15	4:A:600:ETC:H193	2.49	0.43
1:A:537:TYR:O	1:A:541:LEU:HD23	2.20	0.42
1:B:404:PHE:HE2	4:B:800:ETC:H201	1.84	0.42
1:B:307:ALA:HA	1:B:310:LEU:HD13	2.02	0.42
1:A:333:PRO:CB	1:A:345:LEU:HD11	2.49	0.42
1:A:539:LEU:O	1:A:543:MET:HG2	2.19	0.42
1:A:498:GLN:O	1:A:502:GLN:HG3	2.19	0.42
1:A:455:ASN:OD1	1:B:513:HIS:HE1	2.03	0.41
4:A:600:ETC:H122	4:A:600:ETC:H222	1.93	0.41
1:B:392:VAL:HG13	1:B:432:SER:HA	2.03	0.41
1:A:344:GLY:HA2	1:A:535:PRO:HG2	2.04	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	233/261 (89%)	230 (99%)	3 (1%)	0	100 100
1	B	229/261 (88%)	224 (98%)	4 (2%)	1 (0%)	39 27

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	C	8/13 (62%)	7 (88%)	1 (12%)	0	100	100
2	D	8/13 (62%)	8 (100%)	0	0	100	100
All	All	478/548 (87%)	469 (98%)	8 (2%)	1 (0%)	52	43

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	332	ASP

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	190/235 (81%)	190 (100%)	0	100	100
1	B	205/235 (87%)	204 (100%)	1 (0%)	92	91
2	C	8/13 (62%)	8 (100%)	0	100	100
2	D	8/13 (62%)	8 (100%)	0	100	100
All	All	411/496 (83%)	410 (100%)	1 (0%)	95	95

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	541	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	413	ASN
1	A	513	HIS
1	A	519	ASN
1	B	501	HIS
1	B	513	HIS

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Mol	Chain	Res	Type
2	C	695	GLN
2	D	691	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)

2 non-standard protein/DNA/RNA residues 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	$\#\|Z\| > 2$
1	CCS	A	417	1	4,5,10	0.59	0	3,5,12	1.13	0
1	CCS	B	417	1	5,9,10	0.74	0	4,10,12	0.97	0

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
1	CCS	A	417	1	-	0/1/4/10	0/0/0/0
1	CCS	B	417	1	-	0/4/8/10	0/0/0/0

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.

5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

5.6 Ligand geometry (i)

Of 3 ligands modelled in this entry, 1 is monoatomic - leaving 2 for Mogul analysis.

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	ETC	A	600	-	27,27,27	0.79	1 (3%)	30,40,40	1.09	4 (13%)
4	ETC	B	800	-	27,27,27	0.93	1 (3%)	30,40,40	1.12	3 (10%)

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
4	ETC	A	600	-	-	0/4/32/32	0/4/4/4
4	ETC	B	800	-	-	0/4/32/32	0/4/4/4

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	600	ETC	C7-C8	2.24	1.55	1.52
4	B	800	ETC	C7-C8	2.64	1.55	1.52

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	800	ETC	C20-C7-C6	-2.52	108.22	113.39
4	A	600	ETC	C3-C4-C5	-2.24	118.44	120.75
4	A	600	ETC	C20-C7-C6	-2.21	108.86	113.39
4	B	800	ETC	C3-C4-C5	-2.16	118.52	120.75
4	A	600	ETC	C17-C18-C13	-2.05	118.64	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	600	ETC	C2-C3-C4	2.06	122.55	120.19
4	B	800	ETC	C2-C3-C4	2.20	122.71	120.19

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	600	ETC	6	0
4	B	800	ETC	4	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	233/261 (89%)	0.04	7 (3%)	54	64	21, 37, 68, 81	0
1	B	231/261 (88%)	0.09	5 (2%)	65	74	17, 33, 58, 74	0
2	C	10/13 (76%)	0.97	1 (10%)	9	15	42, 60, 69, 76	0
2	D	10/13 (76%)	0.38	1 (10%)	9	15	30, 44, 65, 75	0
All	All	484/548 (88%)	0.09	14 (2%)	55	65	17, 36, 65, 81	0

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	536	LEU	6.0
1	B	334	THR	5.3
1	B	333	PRO	5.2
2	C	687	HIS	4.8
1	A	469	LEU	3.5
1	B	459	TYR	3.4
1	B	460	THR	3.1
1	A	533	VAL	3.0
1	A	534	VAL	2.9
1	B	526	TYR	2.9
1	A	459	TYR	2.8
1	A	458	VAL	2.8
2	D	687	HIS	2.4
1	A	337	PHE	2.3

6.2 Non-standard residues in protein, DNA, RNA chains (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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å^2)	Q<0.9
1	CCS	B	417	10/11	0.87	0.15	-	48,54,67,67	0
1	CCS	A	417	6/11	0.90	0.18	-	52,55,58,60	0

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å^2)	Q<0.9
4	ETC	A	600	24/24	0.90	0.14	1.97	33,42,48,55	0
4	ETC	B	800	24/24	0.92	0.14	1.21	23,35,50,56	0
3	CL	A	601	1/1	0.99	0.08	-0.97	24,24,24,24	0

6.5 Other polymers (i)

There are no such residues in this entry.