



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 05:22 AM GMT

PDB ID : 2QGT  
Title : Crystal Structure of the Estrogen Receptor Alpha Ligand Binding Domain Complexed to an Ether Estradiol Compound  
Authors : Nettles, K.W.; Bruning, J.B.; Nowak, J.; Sharma, S.K.; Hahm, J.B.; Shi, Y.; Kulp, K.; Hochberg, R.B.; Zhou, H.; Katzenellenbogen, J.A.; Katzenellenbogen, B.S.; Kim, Y.; Joachmiak, A.; Greene, G.L.  
Deposited on : 2007-06-29  
Resolution : 2.15 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](mailto:validation@mail.wwpdb.org)  
A user guide is available at  
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

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The following versions of software and data (see [references ⓘ](#)) 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

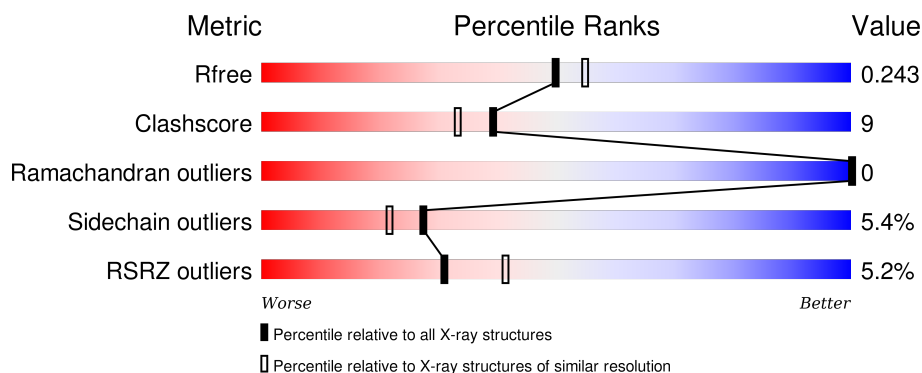
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 2.15 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	1045 (2.16-2.16)
Clashscore	102246	1152 (2.16-2.16)
Ramachandran outliers	100387	1131 (2.16-2.16)
Sidechain outliers	100360	1131 (2.16-2.16)
RSRZ outliers	91569	1050 (2.16-2.16)

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  $\geq 3$ , 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	258	<div> <div>4%</div> <div>75%</div> <div>16%</div> <div>8%</div> </div>
1	B	258	<div> <div>5%</div> <div>76%</div> <div>14%</div> <div>7%</div> </div>
2	C	13	<div> <div>15%</div> <div>62%</div> <div>15%</div> <div>23%</div> </div>
2	D	13	<div> <div>8%</div> <div>85%</div> <div>8%</div> <div>8%</div> </div>

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4173 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
1	A	237	Total	C	N	O	S	0	1	0
			1897	1215	326	337	19			
1	B	239	Total	C	N	O	S	0	2	0
			1910	1222	324	345	19			

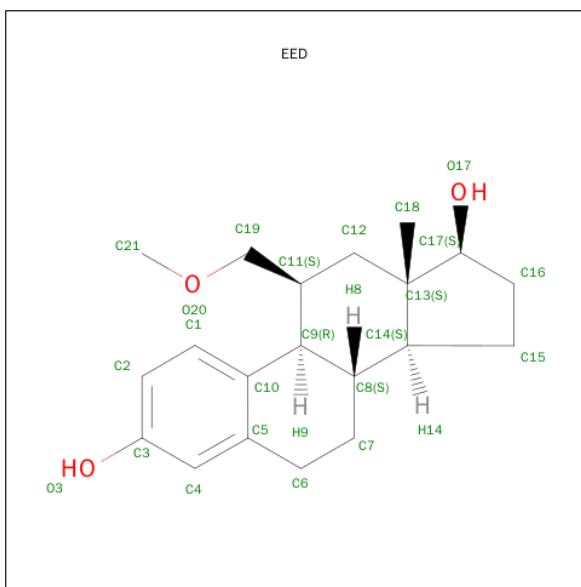
There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	297	SER	-	EXPRESSION TAG	UNP P03372
A	537	SER	TYR	ENGINEERED	UNP P03372
B	297	SER	-	EXPRESSION TAG	UNP P03372
B	537	SER	TYR	ENGINEERED	UNP P03372

- Molecule 2 is a protein called Nuclear receptor coactivator 2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	C	10	Total	C	N	O	0	0	0
			85	54	17	14			
2	D	12	Total	C	N	O	0	0	0
			101	63	21	17			

- Molecule 3 is (9BETA,11ALPHA,13ALPHA,14BETA,17ALPHA)-11-(METHOXYMETHYL)ESTRA-1(10),2,4-TRIENE-3,17-DIOL (three-letter code: EED) (formula: C<sub>20</sub>H<sub>28</sub>O<sub>3</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			23	20	3		
3	B	1	Total	C	O	0	0
			23	20	3		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	76	Total	O	0	0
			76	76		
4	B	57	Total	O	0	0
			57	57		
4	C	1	Total	O	0	0
			1	1		



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	58.17Å 83.71Å 56.01Å 90.00° 108.45° 90.00°	Depositor
Resolution (Å)	20.00 – 2.15 19.92 – 2.12	Depositor EDS
% Data completeness (in resolution range)	96.9 (20.00-2.15) 96.9 (19.92-2.12)	Depositor EDS
$R_{merge}$	0.12	Depositor
$R_{sym}$	0.12	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.32 (at 2.11Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, $R_{free}$	0.192 , 0.240 0.194 , 0.243	Depositor DCC
$R_{free}$ test set	1391 reflections (5.35%)	DCC
Wilson B-factor (Å <sup>2</sup> )	22.4	Xtriage
Anisotropy	0.173	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.35 , 46.5	EDS
Estimated twinning fraction	0.026 for l,-k,h	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 28251 reflections	Xtriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	4173	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.14% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  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: EED

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	0.53	0/1937	0.61	0/2617
1	B	0.51	0/1953	0.57	0/2638
2	C	0.49	0/85	0.67	0/112
2	D	0.43	0/102	0.60	0/135
All	All	0.52	0/4077	0.59	0/5502

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	1897	0	1939	41	0
1	B	1910	0	1948	32	0
2	C	85	0	93	6	0
2	D	101	0	105	1	0
3	A	23	0	28	1	0
3	B	23	0	28	2	0
4	A	76	0	0	2	0
4	B	57	0	0	2	0
4	C	1	0	0	0	0
All	All	4173	0	4141	73	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 9.

All (73) 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	1.00	0.99
1:A:519:ASN:HD22	1:B:519:ASN:ND2	1.59	0.99
1:A:519:ASN:ND2	1:B:519:ASN:HD22	1.65	0.94
1:A:377:HIS:NE2	1:A:460:THR:HG23	1.83	0.93
1:B:454:LEU:HB3	1:B:475:ILE:HD11	1.51	0.90
1:A:536:LEU:HB2	1:A:541:LEU:HD13	1.58	0.85
1:A:528:MET:HE3	1:A:533:VAL:HG11	1.58	0.85
3:B:700:EED:H191	3:B:700:EED:H183	1.58	0.84
1:A:362:LYS:NZ	2:C:697:SER:HB3	1.97	0.79
1:A:528:MET:CE	1:A:533:VAL:HG11	2.14	0.77
1:B:330[B]:GLU:OE1	4:B:64:HOH:O	2.03	0.77
1:A:343:MET:HG3	1:A:528:MET:HE2	1.68	0.76
1:B:472:LYS:O	1:B:475:ILE:HG22	1.89	0.71
1:A:487:ILE:HD11	1:A:504:LEU:HD22	1.72	0.71
1:A:343:MET:HG3	1:A:528:MET:CE	2.21	0.70
1:B:475:ILE:HD13	1:B:479:LEU:CD2	2.23	0.68
1:A:527:SER:O	1:A:531:LYS:HG2	1.93	0.67
1:B:528:MET:SD	1:B:533:VAL:HG21	2.39	0.63
1:B:377:HIS:CE1	1:B:460:THR:HB	2.36	0.61
1:A:377:HIS:CE1	1:A:460:THR:HG23	2.36	0.59
1:A:362:LYS:HZ1	2:C:697:SER:HB3	1.67	0.59
1:B:475:ILE:O	1:B:479:LEU:HD23	2.05	0.57
1:A:434:ARG:HD2	1:A:437:MET:HE3	1.85	0.57
1:B:459:TYR:OH	4:B:5:HOH:O	2.09	0.56
1:A:334:THR:HG23	1:A:335:ARG:HG2	1.87	0.56
1:A:358:ILE:CD1	2:C:693:LEU:HD23	2.36	0.55
3:A:701:EED:H183	3:A:701:EED:H191	1.88	0.55
1:B:339:GLU:HG3	1:B:418:VAL:HA	1.88	0.55
1:B:473:ASP:O	1:B:477:ARG:HG3	2.07	0.53
1:A:334:THR:CG2	1:A:335:ARG:HG2	2.38	0.53
1:A:460:THR:HG22	4:A:9:HOH:O	2.08	0.53
1:B:475:ILE:O	1:B:479:LEU:CD2	2.57	0.53
1:B:538:ASP:O	1:B:542:GLU:HG3	2.09	0.53
1:A:528:MET:HE3	1:A:533:VAL:CG1	2.35	0.52
1:B:458:VAL:HG13	1:B:459:TYR:CD1	2.44	0.52
1:B:308:LEU:HD21	1:B:477:ARG:HD3	1.92	0.52
1:B:454:LEU:HB3	1:B:475:ILE:CD1	2.32	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:343:MET:CG	1:A:528:MET:HE2	2.38	0.51
1:B:354:LEU:O	1:B:358:ILE:HD13	2.11	0.51
3:B:700:EED:H191	3:B:700:EED:C18	2.37	0.50
1:A:370:LEU:HD11	1:A:475:ILE:HD11	1.95	0.49
1:B:434:ARG:HD2	1:B:437:MET:HE3	1.94	0.49
1:A:373[B]:HIS:CD2	1:A:374:ASP:OD1	2.66	0.49
1:B:401:LYS:HD3	1:B:409:LEU:HG	1.95	0.48
1:B:475:ILE:CD1	1:B:479:LEU:HD21	2.43	0.48
1:A:316:VAL:HG21	1:A:489:LEU:HD21	1.95	0.48
1:A:362:LYS:CE	2:C:697:SER:HB3	2.44	0.47
1:A:354:LEU:CD1	1:A:540:LEU:CD1	2.93	0.47
1:B:510:ILE:HG22	1:B:514:ILE:CD1	2.46	0.46
1:B:510:ILE:HG22	1:B:514:ILE:HD12	1.98	0.46
1:B:362:LYS:HD3	2:D:697:SER:OG	2.15	0.46
1:A:410:LEU:HA	1:A:414:GLN:OE1	2.16	0.46
1:A:362:LYS:HZ3	2:C:697:SER:HB3	1.81	0.45
1:A:531:LYS:HG3	1:A:533:VAL:HG23	2.00	0.44
1:B:306:LEU:HD12	1:B:307:ALA:N	2.33	0.44
1:B:434:ARG:CD	1:B:437:MET:HE3	2.47	0.43
1:B:475:ILE:CD1	1:B:479:LEU:CD2	2.93	0.43
1:A:507:LEU:O	1:A:510:ILE:HB	2.19	0.42
1:A:392:VAL:HG13	1:A:432:SER:HA	2.01	0.42
1:B:306:LEU:HD12	1:B:307:ALA:H	1.84	0.42
1:A:337:PHE:HE1	1:A:345:LEU:HD12	1.85	0.42
1:A:403:LEU:HD23	1:A:403:LEU:O	2.20	0.42
1:A:540:LEU:HA	1:A:540:LEU:HD12	1.86	0.42
1:B:475:ILE:O	1:B:475:ILE:HD13	2.19	0.41
1:A:446:VAL:O	4:A:102:HOH:O	2.22	0.41
1:A:528:MET:HE1	1:A:533:VAL:HG11	1.95	0.41
1:A:373[B]:HIS:HD2	1:A:374:ASP:OD1	2.03	0.41
1:A:343:MET:HG3	1:A:528:MET:HE3	1.99	0.41
1:A:354:LEU:HD12	1:A:540:LEU:CD1	2.51	0.41
1:B:496:THR:O	1:B:500:GLN:HG3	2.21	0.41
1:B:497:LEU:HA	1:B:497:LEU:HD23	1.93	0.41
1:A:358:ILE:HD13	2:C:693:LEU:HD23	2.03	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	234/258 (91%)	231 (99%)	3 (1%)	0	100	100
1	B	237/258 (92%)	232 (98%)	5 (2%)	0	100	100
2	C	8/13 (62%)	7 (88%)	1 (12%)	0	100	100
2	D	10/13 (77%)	10 (100%)	0	0	100	100
All	All	489/542 (90%)	480 (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	213/233 (91%)	203 (95%)	10 (5%)	32	28
1	B	216/233 (93%)	201 (93%)	15 (7%)	19	13
2	C	10/13 (77%)	10 (100%)	0	100	100
2	D	12/13 (92%)	12 (100%)	0	100	100
All	All	451/492 (92%)	426 (94%)	25 (6%)	27	21

All (25) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	321	ASP
1	A	334	THR

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Mol	Chain	Res	Type
1	A	439	ASN
1	A	461	PHE
1	A	473	ASP
1	A	497	LEU
1	A	529	LYS
1	A	540	LEU
1	A	541	LEU
1	A	548	ARG
1	B	306	LEU
1	B	317	SER
1	B	330[A]	GLU
1	B	330[B]	GLU
1	B	362	LYS
1	B	396	MET
1	B	440	LEU
1	B	460	THR
1	B	469	LEU
1	B	475	ILE
1	B	482	ILE
1	B	531	LYS
1	B	534	VAL
1	B	540	LEU
1	B	545	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	398	HIS
1	A	439	ASN
1	A	513	HIS
1	A	532	ASN
1	B	513	HIS
1	B	519	ASN
1	B	532	ASN
2	C	691	HIS

### 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 carbohydrates in this entry.

## 5.6 Ligand geometry ⓘ

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	EED	A	701	-	25,26,26	0.77	1 (4%)	33,40,40	1.46	5 (15%)
3	EED	B	700	-	25,26,26	0.94	0	33,40,40	1.62	5 (15%)

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	EED	A	701	-	-	0/3/46/46	0/4/4/4
3	EED	B	700	-	-	0/3/46/46	0/4/4/4

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	701	EED	C6-C5	2.20	1.55	1.51

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	700	EED	C16-C17-C13	-3.84	101.59	104.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	701	EED	C13-C14-C8	-2.96	109.74	114.37
3	A	701	EED	C7-C6-C5	-2.71	107.77	112.86
3	A	701	EED	C16-C17-C13	-2.51	102.63	104.58
3	B	700	EED	C16-C15-C14	-2.17	100.77	105.12
3	B	700	EED	C7-C8-C9	2.04	112.15	109.70
3	A	701	EED	C3-C4-C5	3.30	124.17	120.75
3	A	701	EED	C6-C5-C10	3.32	125.91	121.20
3	B	700	EED	C3-C4-C5	3.51	124.39	120.75
3	B	700	EED	C6-C5-C10	3.59	126.29	121.20

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	701	EED	1	0
3	B	700	EED	2	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 ⓘ

### 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	237/258 (91%)	-0.02	10 (4%) 40 50	9, 17, 41, 66	0
1	B	239/258 (92%)	0.14	13 (5%) 29 40	8, 18, 43, 75	0
2	C	10/13 (76%)	0.36	2 (20%) 1 2	17, 21, 36, 37	0
2	D	12/13 (92%)	0.96	1 (8%) 14 20	19, 25, 35, 40	0
All	All	498/542 (91%)	0.09	26 (5%) 31 41	8, 18, 41, 75	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	469	LEU	7.5
1	B	459	TYR	6.1
1	B	461	PHE	4.4
1	A	471	GLU	4.3
1	A	306	LEU	4.1
1	A	469	LEU	4.0
1	A	460	THR	3.6
2	D	687	HIS	3.5
1	B	471	GLU	3.3
2	C	697	SER	3.3
1	B	305	SER	3.3
1	B	335	ARG	3.2
1	B	336	PRO	2.9
1	B	334	THR	2.8
1	A	461	PHE	2.7
1	B	460	THR	2.7
1	A	459	TYR	2.7
1	B	472	LYS	2.5
1	A	309	SER	2.5
1	A	308	LEU	2.5
1	A	305	SER	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	470	GLU	2.4
1	B	308	LEU	2.1
1	B	306	LEU	2.1
2	C	696	ASP	2.1
1	B	530	CYS	2.1

## 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. 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
3	EED	B	700	23/23	0.96	0.13	0.77	12,15,17,21	0
3	EED	A	701	23/23	0.96	0.10	-0.26	9,11,14,15	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.