

Full wwPDB X-ray Structure Validation Report (i)

Sep 24, 2023 – 01:35 AM EDT

PDB ID : 5TTO

Title : X-ray crystal structure of PPARgamma in complex with SR1643 Authors : Bruning, J.B.; Frkic, R.L.; Griffin, P.; Kamenecka, T.; Abell, A.

Deposited on : 2016-11-04

Resolution : 2.25 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 (i) 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 (1)) were used in the production of this report:

MolProbity : 4.02b-467

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.35.1 buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Refmac : 5.8.0158

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

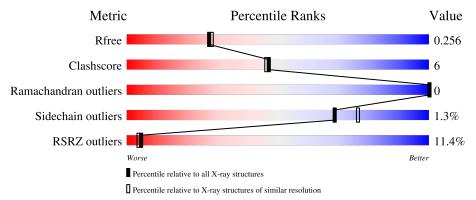
Validation Pipeline (wwPDB-VP) : 2.35.1

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 2.25 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
R_{free}	130704	2391 (2.26-2.22)
Clashscore	141614	2539 (2.26-2.22)
Ramachandran outliers	138981	2489 (2.26-2.22)
Sidechain outliers	138945	2490 (2.26-2.22)
RSRZ outliers	127900	2353 (2.26-2.22)

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 <=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.

N	Aol	Chain	Length	Quality of chain		
	1	A	273	81%	14%	• 5%
	1	В	273	15% 77%	18%	5%



2 Entry composition (i)

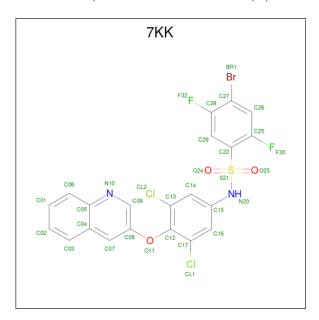
There are 3 unique types of molecules in this entry. The entry contains 4362 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Peroxisome proliferator-activated receptor gamma.

	Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
	1	Λ	260	Total	С	N	О	S	0	7	0
	1	А	200	2090	1352	340	390	8	0	'	U
ĺ	1	D	258	Total	С	N	О	S	0	9	0
	1	Ъ	250	2049	1326	336	377	10	0	2	0

• Molecule 2 is 4-bromo-N- $\{3,5$ -dichloro-4-[(quinolin-3-yl)oxy]phenyl $\}$ -2,5-difluorobenzene-1-s ulfonamide (three-letter code: 7KK) (formula: $C_{21}H_{11}BrCl_2F_2N_2O_3S$).



Mol	Chain	Residues		Atoms							ZeroOcc	AltConf
9	Λ	1	Total	Br	С	Cl	F	N	О	S	0	0
	A	1	32	1	21	2	2	2	3	1	0	0
9	D	1	Total	Br	С	Cl	F	N	О	S	0	0
2	D	1	32	1	21	2	2	2	3	1	0	U

• Molecule 3 is water.



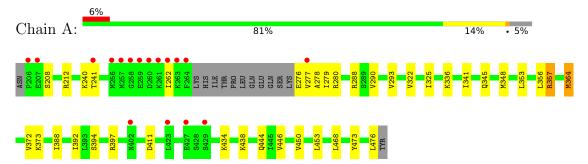
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	79	Total O 79 79	0	0
3	В	80	Total O 80 80	0	0



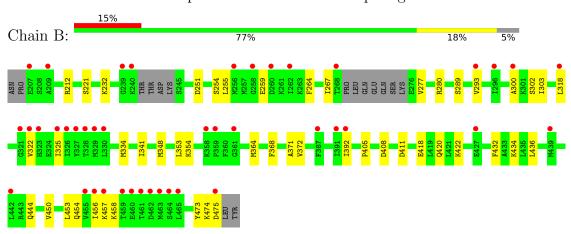
3 Residue-property plots (i)

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: Peroxisome proliferator-activated receptor gamma



• Molecule 1: Peroxisome proliferator-activated receptor gamma





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	93.11Å 62.24Å 118.88Å	Donogitor
a, b, c, α , β , γ	90.00° 102.20° 90.00°	Depositor
Resolution (Å)	45.50 - 2.25	Depositor
Resolution (A)	45.50 - 2.25	EDS
% Data completeness	98.0 (45.50-2.25)	Depositor
(in resolution range)	96.9 (45.50-2.25)	EDS
R_{merge}	0.05	Depositor
R_{sym}	0.05	Depositor
$< I/\sigma(I) > 1$	5.01 (at 2.24Å)	Xtriage
Refinement program	PHENIX (1.10.1_2155)	Depositor
D D	0.204 , 0.256	Depositor
R, R_{free}	0.204 , 0.256	DCC
R_{free} test set	1536 reflections (4.90%)	wwPDB-VP
Wilson B-factor (Å ²)	47.5	Xtriage
Anisotropy	0.303	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.36, 64.8	EDS
L-test for twinning ²	$ < L > = 0.48, < L^2> = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4362	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 6.65% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $<L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



¹Intensities estimated from amplitudes.

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: 7KK

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		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.28	0/2149	0.43	0/2896	
1	В	0.27	0/2086	0.44	0/2812	
All	All	0.28	0/4235	0.44	0/5708	

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 maintain group or atoms of a sidechain that are expected to be planar.

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

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	В	473	TYR	Peptide

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	2090	0	2138	27	0
1	В	2049	0	2079	27	0
2	A	32	0	0	1	0
2	В	32	0	0	0	0
3	A	79	0	0	0	0
3	В	80	0	0	0	0
All	All	4362	0	4217	52	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 (52) 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:276:GLU:HG2	1:A:277:VAL:H	1.30	0.96
1:A:262:ILE:HD11	1:A:345:GLN:O	1.75	0.86
1:A:262:ILE:HD11	1:A:345:GLN:C	2.02	0.80
1:B:212:ARG:NH2	1:B:420:GLN:OE1	2.16	0.79
1:A:276:GLU:OE2	1:A:357:ARG:NH1	2.16	0.78
1:A:411[B]:ASP:OD1	1:B:434:LYS:NZ	2.13	0.76
1:A:336:LYS:HD2	1:A:372:VAL:HG21	1.69	0.72
1:A:353:LEU:HD13	1:A:364:MET:HG3	1.73	0.70
1:A:240:LYS:HB3	1:A:241:THR:HG23	1.76	0.68
1:A:276:GLU:HG2	1:A:277:VAL:N	2.08	0.67
1:A:293:VAL:HG22	1:A:322:VAL:HG11	1.82	0.61
1:B:450:VAL:HA	1:B:453:LEU:HG	1.83	0.60
1:A:434:LYS:NZ	1:B:411:ASP:OD2	2.35	0.59
1:A:276:GLU:O	1:A:280:ARG:HD3	2.05	0.56
1:B:259:GLU:OE1	1:B:280:ARG:NH2	2.40	0.55
1:A:277:VAL:O	1:A:279:ILE:N	2.35	0.54
1:B:450:VAL:O	1:B:454:GLN:HG2	2.08	0.54
1:A:325:ILE:HG12	1:A:388[A]:ILE:HG23	1.89	0.54
1:B:325:ILE:HD11	1:B:392:ILE:HG12	1.90	0.54
1:A:290:VAL:HG13	1:A:468:LEU:HD23	1.91	0.52
1:A:341:ILE:HG21	1:A:348:MET:HE3	1.92	0.52
1:A:373:LYS:HD3	1:A:438:LYS:NZ	2.25	0.50
1:B:418:GLU:HG2	1:B:422:LYS:HE2	1.92	0.50
1:A:276:GLU:CD	1:A:357:ARG:HH12	2.16	0.49
1:B:456:ILE:C	1:B:458:LYS:H	2.16	0.49
1:A:473:TYR:HA	1:A:476:LEU:HD22	1.94	0.48
1:A:288:ARG:HG3	2:A:501:7KK:CL1	2.50	0.48
1:B:255:LEU:CD2	1:B:277:VAL:HG13	2.45	0.47



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A	A	Interatomic	Clash
Atom-1	Atom-2	${\rm distance}\ ({\rm \AA})$	overlap (Å)
1:B:474:LYS:O	1:B:475:ASP:HB2	2.14	0.47
1:B:405:PRO:HA	1:B:408:ASP:HB2	1.97	0.47
1:A:208:SER:O	1:A:212:ARG:HG2	2.15	0.47
1:A:394:SER:O	1:A:397:ARG:HG2	2.14	0.45
1:B:232:LYS:HA	1:B:232:LYS:HE2	1.97	0.45
1:B:348:MET:SD	1:B:353:LEU:HD21	2.57	0.45
1:B:364:MET:O	1:B:364:MET:HG3	2.17	0.44
1:A:325:ILE:HD11	1:A:392:ILE:HG13	2.00	0.44
1:B:251:ASP:H	1:B:254:SER:HG	1.65	0.44
1:B:368:PHE:O	1:B:372:VAL:HG23	2.18	0.44
1:A:473:TYR:O	1:A:476:LEU:HB2	2.18	0.43
1:B:457:LYS:O	1:B:457:LYS:HD3	2.19	0.43
1:B:221:SER:HG	1:B:302[A]:SER:HB2	1.84	0.42
1:B:354:LYS:HE3	1:B:354:LYS:HB2	1.68	0.42
1:B:289:SER:O	1:B:293:VAL:HG23	2.19	0.42
1:B:432:PHE:O	1:B:436:LEU:HG	2.20	0.42
1:B:300:ALA:HA	1:B:303:ILE:HD12	2.01	0.42
1:B:264:PHE:HB2	1:B:267:ILE:HG12	2.01	0.42
1:A:277:VAL:HG22	1:A:278:ALA:H	1.83	0.42
1:A:446:VAL:O	1:A:450:VAL:HG13	2.21	0.41
1:B:334:MET:HE3	1:B:371:ALA:HB2	2.03	0.41
1:A:276:GLU:CG	1:A:277:VAL:H	2.14	0.41
1:B:341:ILE:HD13	1:B:348:MET:HE2	2.03	0.40
1:B:318:LEU:O	1:B:322:VAL:HG13	2.21	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	$263/273 \ (96\%)$	255 (97%)	8 (3%)	0	100	100



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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	Percentiles		
1	В	254/273 (93%)	246 (97%)	8 (3%)	0	100	100		
All	All	517/546 (95%)	501 (97%)	16 (3%)	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	232/246 (94%)	227 (98%)	5 (2%)	52 59
1	В	223/246 (91%)	222 (100%)	1 (0%)	91 93
All	All	$455/492 \ (92\%)$	449 (99%)	6 (1%)	69 76

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	356	LEU
1	A	357	ARG
1	A	364	MET
1	A	444	GLN
1	A	453	LEU
1	В	444	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 monosaccharides 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 Ty	True	Chain	Res	Link	Вс	Bond lengths			Bond angles		
	Type				Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	7KK	A	501	-	35,35,35	1.63	7 (20%)	48,52,52	2.63	6 (12%)	
2	7KK	В	501	-	35,35,35	1.67	7 (20%)	48,52,52	2.62	8 (16%)	

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
2	7KK	A	501	-	-	0/15/15/15	0/4/4/4
2	7KK	В	501	-	-	2/15/15/15	0/4/4/4

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(A)
2	В	501	7KK	S21-N20	4.63	1.71	1.63
2	A	501	7KK	S21-N20	4.38	1.70	1.63
2	A	501	7KK	C04-C05	-3.50	1.36	1.42
2	В	501	7KK	C04-C05	-3.42	1.36	1.42
2	В	501	7KK	C22-S21	3.19	1.82	1.77
2	В	501	7KK	O23-S21	3.14	1.47	1.43
2	В	501	7KK	O24-S21	3.12	1.47	1.43
2	A	501	7KK	C22-S21	3.12	1.82	1.77
2	A	501	7KK	O24-S21	3.05	1.47	1.43
2	A	501	7KK	O23-S21	3.03	1.47	1.43
2	В	501	7KK	C13-CL2	2.35	1.79	1.73



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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	$Ideal(\AA)$
2	В	501	7KK	BR1-C27	2.24	1.94	1.89
2	A	501	7KK	BR1-C27	2.21	1.94	1.89
2	A	501	7KK	C13-CL2	2.10	1.78	1.73

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	501	7KK	O24-S21-O23	-14.99	101.13	119.55
2	A	501	7KK	O24-S21-O23	-14.87	101.27	119.55
2	A	501	7KK	C26-C25-C22	-5.61	119.85	123.10
2	В	501	7KK	C26-C25-C22	-5.44	119.95	123.10
2	A	501	7KK	C09-N10-C05	4.57	122.41	116.91
2	В	501	7KK	C09-N10-C05	4.46	122.28	116.91
2	A	501	7KK	C22-S21-N20	3.25	111.06	107.27
2	В	501	7KK	C22-S21-N20	2.63	110.34	107.27
2	A	501	7KK	O24-S21-C22	2.49	111.75	107.66
2	A	501	7KK	C12-C17-CL1	2.37	121.51	118.41
2	В	501	7KK	O24-S21-N20	2.16	112.13	106.73
2	В	501	7KK	C08-C09-N10	-2.08	120.29	122.74
2	В	501	7KK	O24-S21-C22	2.05	111.04	107.66
2	В	501	7KK	O23-S21-C22	2.01	110.97	107.66

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	501	7KK	C14-C15-N20-S21
2	В	501	7KK	C16-C15-N20-S21

There are no ring outliers.

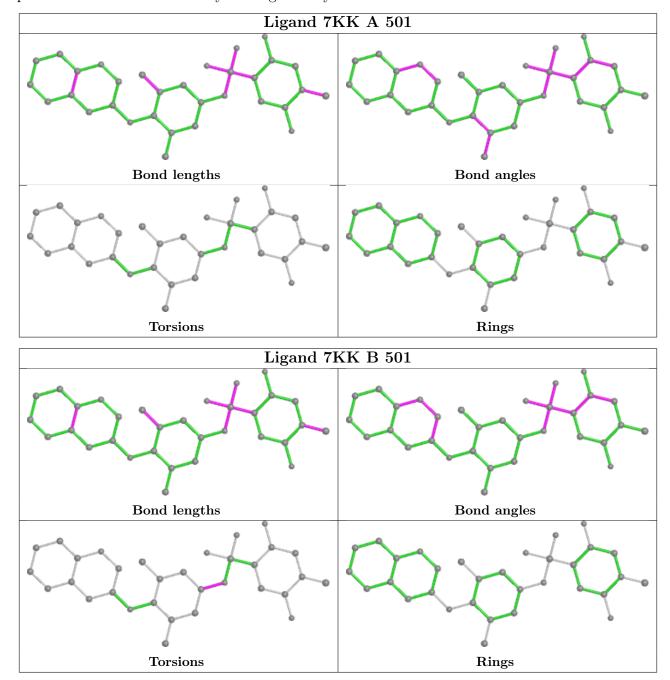
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	501	7KK	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be



highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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, 95^{th} 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 $>$	$\#\mathrm{RSRZ}{>}2$		$\mathbf{OWAB}(\mathbf{\mathring{A}}^2)$	Q < 0.9
1	A	$260/273 \ (95\%)$	0.57	17 (6%) 18 1	8	38, 58, 85, 111	0
1	В	258/273 (94%)	0.96	42 (16%) 1 1	1	40, 59, 89, 107	0
All	All	518/546 (94%)	0.77	59 (11%) 5	1	38, 59, 87, 111	0

All (59) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ	
1	В	256[A]	MET	6.0	
1	В	240	LYS	5.7	
1	В	462	ASP	5.5	
1	A	260	ASP	5.2	
1	В	459	THR	4.9	
1	В	262	ILE	4.9	
1	A	263	LYS	4.4	
1	В	461	THR	4.4	
1	A	206	PRO	4.2	
1	A	256	MET	4.1	
1	A	264	PHE	3.9	
1	В	209	ALA	3.9	
1	В	260	ASP	3.5	
1	В	463	MET	3.5	
1	A	262	ILE	3.4	
1	В	207	GLU	3.4	
1	A	257	MET	3.4	
1	В	268	THR	3.4	
1	В	325	ILE	3.3	
1	В	318	LEU	3.2	
1	В	328	THR	3.1	
1	В	464	SER	3.0	
1	В	361	GLY	3.0	
1	A	261	LYS	3.0	



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Mol	Chain	Res	Type	RSRZ	
1	В	460	GLU	2.9	
1	В	475	ASP	2.9	
1	В	327	TYR	2.9	
1	В	456	ILE	2.8	
1	A	277	VAL	2.8	
1	A	259	GLU	2.8	
1	В	455	VAL	2.8	
1	В	326	ILE	2.8	
1	В	465	LEU	2.8	
1	A	427 GLU		2.7	
1	В	296	ILE	2.7	
1	В	239	GLY	2.6	
1	В	330	LEU	2.6	
1	A	423	LEU	2.6	
1	В	293	VAL	2.5	
1	В	322	VAL	2.5	
1	A	241	THR	2.5	
1	В	442	LEU	2.4	
1	В	359	PRO	2.3	
1	В	358	LYS	2.3	
1	В	391	ILE	2.3	
1	В	392	ILE	2.2	
1	В	439	MET	2.2	
1	A	207	GLU	2.2	
1	В	427	GLU	2.2	
1	A	258	GLY	2.2	
1	В	323	HIS	2.1	
1	В	329	MET	2.1	
1	В	457	LYS	2.1	
1	В	258	GLY	2.1	
1	A	429	SER	2.1	
1	A	402	ASN	2.0	
1	В	300	ALA	2.0	
1	В	387	PHE	2.0	
1	В	321	GLY	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 monosaccharides 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, 95^{th} 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.

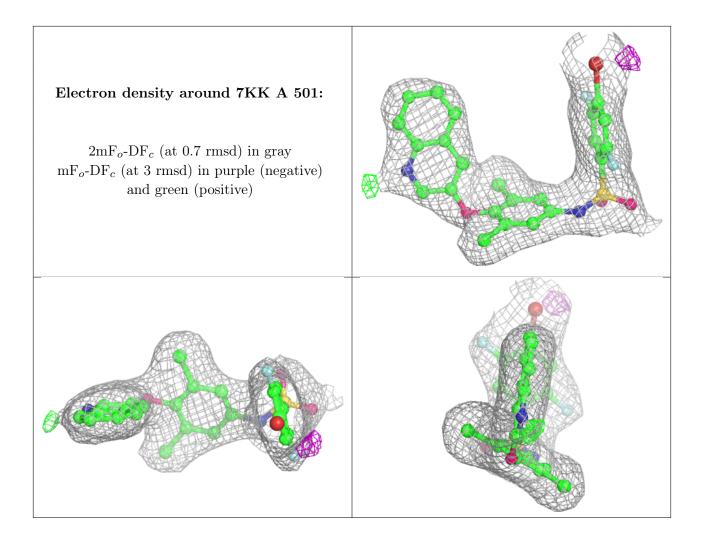
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	7KK	В	501	32/32	0.92	0.16	50,58,72,82	0
2	7KK	A	501	32/32	0.97	0.13	58,65,74,87	0

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.



Electron density around 7KK B 501: $2 {\rm mF}_o\text{-}{\rm DF}_c$ (at 0.7 rmsd) in gray ${\rm mF}_o\text{-}{\rm DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)





6.5 Other polymers (i)

There are no such residues in this entry.

