



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 27, 2014 – 12:34 PM GMT

PDB ID : 1KV6
Title : X-ray structure of the orphan nuclear receptor ERR3 ligand-binding domain
in the constitutively active conformation
Authors : Greschik, H.; Wurtz, J.-M.; Sanglier, S.; Bourguet, W.; van Dorsselaer, A.;
Moras, D.; Renaud, J.-P.; Structural Proteomics in Europe (SPINE)
Deposited on : 2002-01-25
Resolution : 2.70 Å(reported)

This is a full wwPDB 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/ValidationPDFNotes.html>

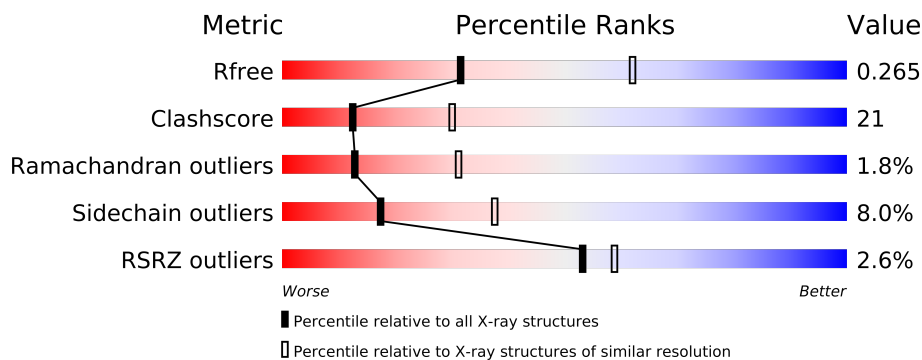
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

The reported resolution of this entry is 2.70 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}	66092	1557 (2.70-2.70)
Clashscore	79885	1939 (2.70-2.70)
Ramachandran outliers	78287	1905 (2.70-2.70)
Sidechain outliers	78261	1905 (2.70-2.70)
RSRZ outliers	66119	1559 (2.70-2.70)

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. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	230	
1	B	230	
2	C	15	
2	D	15	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3687 atoms, of which 0 are hydrogen and 0 are deuterium.

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-RELATED RECEPTOR GAMMA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	222	Total	C	N	O	S	0	0	0
			1749	1121	283	333	12			
1	B	222	Total	C	N	O	S	0	0	0
			1745	1121	283	329	12			

- Molecule 2 is a protein called steroid receptor coactivator 1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	C	10	Total	C	N	O	0	0	0
			77	50	16	11			
2	D	11	Total	C	N	O	0	0	0
			85	54	17	14			

- Molecule 3 is water.

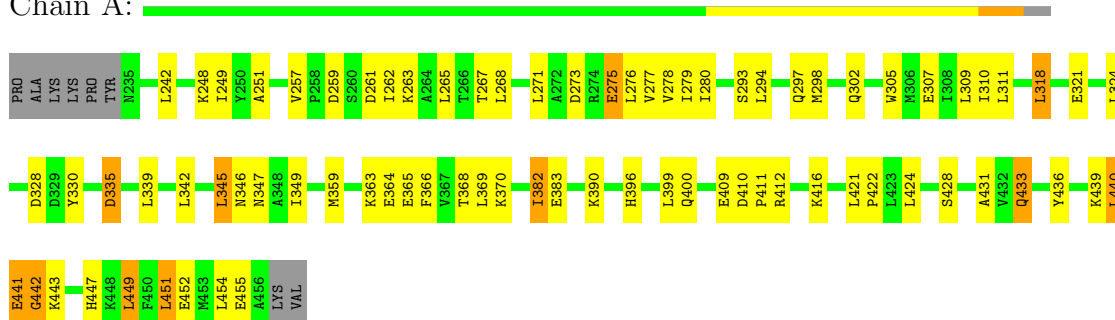
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	16	Total	O	0	0
			16	16		
3	B	15	Total	O	0	0
			15	15		

3 Residue-property plots

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.

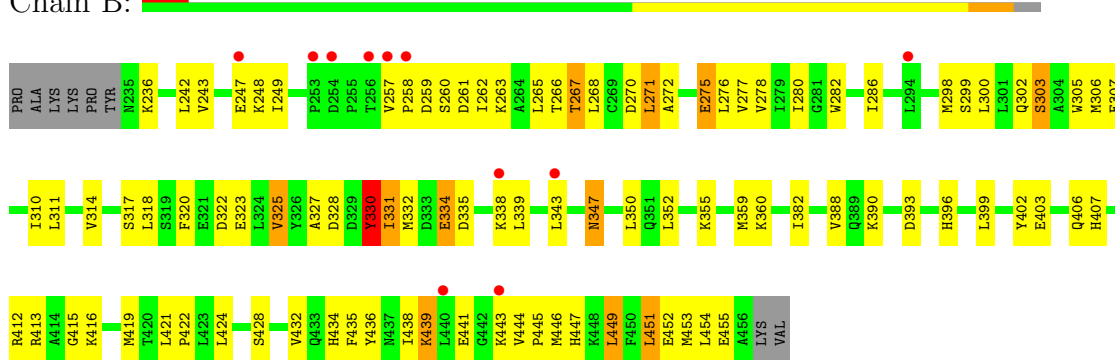
• Molecule 1: ESTROGEN-RELATED RECEPTOR GAMMA

Chain A:



• Molecule 1: ESTROGEN-RELATED RECEPTOR GAMMA

Chain B:



• Molecule 2: steroid receptor coactivator 1

Chain C:



• Molecule 2: steroid receptor coactivator 1

Chain D:



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	83.32Å 83.32Å 240.61Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	15.00 – 2.70 14.99 – 2.50	Depositor EDS
% Data completeness (in resolution range)	90.1 (15.00-2.70) 85.7 (14.99-2.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.64 (at 2.51Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.233 , 0.267 0.240 , 0.265	Depositor DCC
R_{free} test set	1038 reflections (4.80%)	DCC
Wilson B-factor (Å ²)	51.8	Xtriage
Anisotropy	0.853	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 52.2	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 29224 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3687	wwPDB-VP
Average B, all atoms (Å ²)	79.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.28% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality

5.1 Standard geometry

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	0.64	0/1779	0.74	0/2409
1	B	0.61	0/1775	0.73	0/2403
2	C	0.46	0/77	0.59	0/103
2	D	0.43	0/85	0.56	0/113
All	All	0.62	0/3716	0.73	0/5028

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1749	0	1771	61	0
1	B	1745	0	1771	93	0
2	C	77	0	77	6	0
2	D	85	0	84	10	0
3	A	16	0	0	0	0
3	B	15	0	0	1	0
All	All	3687	0	3703	155	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 21.

All (155) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:236:LYS:HD2	1:B:236:LYS:H	1.13	1.11
1:B:249:ILE:HD11	1:B:278:VAL:HG21	1.45	0.97
1:B:298:MET:O	1:B:302:GLN:HG2	1.68	0.94
1:A:249:ILE:HD11	1:A:278:VAL:HG21	1.51	0.92
1:B:307:GLU:HG2	1:B:424:LEU:HG	1.51	0.90
1:A:412:ARG:HG2	1:B:396:HIS:CE1	2.07	0.89
1:B:446:MET:HB2	1:B:451:LEU:HD11	1.62	0.82
1:B:268:LEU:HD21	1:B:332:MET:CE	2.15	0.77
1:B:236:LYS:CD	1:B:236:LYS:H	1.97	0.76
1:B:271:LEU:HD11	1:B:327:ALA:HB2	1.66	0.75
1:B:435:PHE:O	1:B:454:LEU:HD21	1.86	0.74
1:B:338:LYS:HE2	1:B:343:LEU:HG	1.71	0.72
1:B:268:LEU:HD21	1:B:332:MET:HE1	1.72	0.71
1:B:335:ASP:O	1:B:339:LEU:HD13	1.91	0.71
1:B:439:LYS:HD3	1:B:439:LYS:C	2.11	0.71
1:B:276:LEU:O	1:B:280:ILE:HG13	1.91	0.70
1:B:382:ILE:HD13	1:B:388:VAL:HG21	1.74	0.69
1:B:323:GLU:OE2	1:B:331:ILE:HD11	1.92	0.69
1:B:261:ASP:OD2	1:B:262:ILE:N	2.26	0.67
1:A:396:HIS:CE1	1:B:412:ARG:HG2	2.30	0.67
1:B:338:LYS:HG2	1:B:343:LEU:HG	1.78	0.66
1:A:267:THR:HG21	1:A:330:TYR:CE2	2.31	0.65
1:A:273:ASP:O	1:A:277:VAL:HG23	1.96	0.65
1:A:365:GLU:O	1:A:369:LEU:HB2	1.97	0.64
1:B:267:THR:HB	1:B:330:TYR:HE1	1.62	0.63
1:B:236:LYS:N	1:B:236:LYS:HD2	1.98	0.63
1:A:335:ASP:O	1:A:339:LEU:HG	1.99	0.63
1:A:275:GLU:O	1:A:279:ILE:HG13	1.98	0.63
1:B:266:THR:CG2	1:B:445:PRO:HG2	2.30	0.62
1:A:436:TYR:O	1:A:439:LYS:HB3	1.99	0.61
2:D:693:LEU:HD12	2:D:693:LEU:H	1.64	0.61
1:A:441:GLU:O	1:A:443:LYS:N	2.35	0.60
2:D:696:GLU:OE2	2:D:696:GLU:HA	2.01	0.60
1:B:265:LEU:HD23	1:B:438:ILE:HG21	1.83	0.60
1:B:266:THR:HG23	1:B:445:PRO:HG2	1.83	0.60
1:B:268:LEU:HD21	1:B:332:MET:HE2	1.84	0.59
1:B:262:ILE:CD1	1:B:444:VAL:HG22	2.33	0.58
1:A:324:LEU:HD12	1:A:346:ASN:ND2	2.19	0.58
1:A:280:ILE:CD1	2:C:690:LEU:HD12	2.34	0.58
1:A:368:THR:HG21	1:A:399:LEU:HB2	1.84	0.58
1:B:307:GLU:HG3	1:B:428:SER:CB	2.34	0.58
1:A:421:LEU:N	1:A:422:PRO:CD	2.67	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:294:LEU:HD23	2:C:691:HIS:CE1	2.39	0.57
2:C:691:HIS:NE2	2:C:695:GLN:OE1	2.37	0.57
1:B:314:VAL:O	1:B:318:LEU:HD13	2.04	0.56
1:A:382:ILE:HD12	1:A:383:GLU:N	2.19	0.56
2:D:693:LEU:HD12	2:D:693:LEU:N	2.20	0.56
1:A:366:PHE:CZ	1:A:370:LYS:HE2	2.39	0.56
1:A:400:GLN:NE2	1:B:412:ARG:HG3	2.21	0.56
1:A:279:ILE:HD11	1:A:309:LEU:CD2	2.37	0.55
1:B:355:LYS:O	1:B:359:MET:HG3	2.07	0.55
1:B:446:MET:CB	1:B:451:LEU:HD11	2.34	0.55
1:A:433:GLN:HA	1:A:433:GLN:HE21	1.71	0.54
1:A:400:GLN:HE22	1:B:412:ARG:HG3	1.72	0.54
1:A:359:MET:HE3	1:A:416:LYS:HB3	1.90	0.54
1:B:334:GLU:O	1:B:338:LYS:HG3	2.08	0.54
1:B:258:PRO:O	1:B:260:SER:N	2.42	0.53
1:B:310:ILE:O	1:B:314:VAL:HG23	2.08	0.53
1:B:249:ILE:CD1	1:B:278:VAL:HG21	2.29	0.52
1:B:299:SER:O	1:B:303:SER:HB2	2.09	0.52
1:A:279:ILE:HD11	1:A:309:LEU:HD23	1.91	0.52
1:B:428:SER:O	1:B:432:VAL:HG23	2.10	0.52
1:B:446:MET:HB2	1:B:451:LEU:CD1	2.38	0.52
1:A:298:MET:O	1:A:302:GLN:HG2	2.09	0.52
1:A:257:VAL:O	1:A:263:LYS:HE3	2.09	0.52
1:A:359:MET:CE	1:A:416:LYS:HB3	2.39	0.52
1:B:306:MET:HG2	1:B:432:VAL:HG23	1.91	0.51
2:D:689:ILE:O	2:D:693:LEU:HD13	2.10	0.51
1:A:345:LEU:O	1:A:349:ILE:HG13	2.10	0.51
2:D:693:LEU:O	2:D:696:GLU:HG2	2.11	0.50
1:B:272:ALA:O	1:B:276:LEU:HG	2.10	0.50
1:A:452:GLU:OE2	2:C:689:ILE:HG13	2.11	0.50
2:D:690:LEU:O	2:D:694:LEU:HD12	2.11	0.50
1:B:421:LEU:N	1:B:422:PRO:CD	2.75	0.50
1:A:261:ASP:HB3	1:A:339:LEU:O	2.10	0.50
1:B:359:MET:O	1:B:360:LYS:HB2	2.11	0.50
1:B:277:VAL:HG22	1:B:449:LEU:HD12	1.92	0.50
1:B:307:GLU:HG3	1:B:428:SER:HB2	1.92	0.50
2:D:693:LEU:H	2:D:693:LEU:CD1	2.24	0.50
1:B:434:HIS:CD2	1:B:434:HIS:C	2.84	0.50
1:A:262:ILE:HD12	1:A:262:ILE:N	2.26	0.50
1:B:331:ILE:HG13	1:B:332:MET:N	2.27	0.50
1:A:242:LEU:HD11	1:A:364:GLU:HG3	1.94	0.50
1:B:262:ILE:HD12	1:B:444:VAL:HG22	1.93	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:447:HIS:O	1:B:451:LEU:HD22	2.12	0.49
1:A:396:HIS:CE1	1:B:415:GLY:HA3	2.47	0.49
1:A:259:ASP:HA	1:A:263:LYS:HD3	1.94	0.49
1:A:280:ILE:HD11	2:C:690:LEU:HD12	1.94	0.49
1:B:441:GLU:HG2	3:B:1013:HOH:O	2.14	0.48
1:B:257:VAL:HB	1:B:263:LYS:HG3	1.95	0.48
1:B:343:LEU:HD23	1:B:347:ASN:OD1	2.13	0.48
1:A:307:GLU:HG2	1:A:424:LEU:HG	1.96	0.47
1:B:267:THR:CB	1:B:330:TYR:HE1	2.26	0.47
1:B:343:LEU:C	1:B:343:LEU:HD23	2.34	0.47
1:B:322:ASP:HA	1:B:350:LEU:CD1	2.45	0.47
1:A:294:LEU:O	1:A:298:MET:HG3	2.15	0.46
1:A:293:SER:O	1:A:297:GLN:HG3	2.15	0.46
1:A:251:ALA:CB	1:A:330:TYR:HB2	2.46	0.46
1:B:302:GLN:HA	1:B:305:TRP:HD1	1.79	0.46
1:A:267:THR:HG21	1:A:330:TYR:HE2	1.80	0.46
1:B:306:MET:O	1:B:310:ILE:HG13	2.14	0.46
1:A:276:LEU:HD21	1:A:305:TRP:CE3	2.51	0.46
1:B:248:LYS:NZ	1:B:248:LYS:HB2	2.31	0.46
1:B:407:HIS:CG	1:B:413:ARG:HD3	2.51	0.46
1:B:325:VAL:O	1:B:325:VAL:HG12	2.16	0.45
1:A:416:LYS:HE2	1:B:393:ASP:OD1	2.16	0.45
1:B:402:TYR:CE1	1:B:406:GLN:HG3	2.52	0.45
1:A:310:ILE:HD12	1:A:428:SER:HA	1.97	0.45
1:B:257:VAL:CG1	1:B:263:LYS:HG3	2.47	0.45
1:A:280:ILE:HD13	2:C:690:LEU:HD12	1.97	0.45
1:A:396:HIS:ND1	1:B:419:MET:CE	2.80	0.45
1:B:280:ILE:HD12	2:D:693:LEU:HD22	1.99	0.44
1:B:305:TRP:CE2	1:B:453:MET:HB3	2.53	0.44
1:B:452:GLU:OE2	2:D:689:ILE:HG13	2.17	0.44
1:B:271:LEU:O	1:B:275:GLU:HB2	2.17	0.44
1:B:262:ILE:HD13	1:B:443:LYS:O	2.18	0.44
1:B:257:VAL:CG1	1:B:258:PRO:HD2	2.47	0.44
1:B:359:MET:HE3	1:B:416:LYS:HB3	2.00	0.44
1:A:345:LEU:HD21	1:A:431:ALA:HB2	2.00	0.44
1:A:318:LEU:HA	1:A:318:LEU:HD12	1.74	0.44
1:B:262:ILE:HD13	1:B:444:VAL:HG22	2.00	0.43
1:A:342:LEU:O	1:A:346:ASN:HB2	2.19	0.43
1:A:248:LYS:HD3	1:A:328:ASP:OD2	2.17	0.43
1:B:257:VAL:HG11	1:B:263:LYS:HG3	2.01	0.43
1:B:338:LYS:CE	1:B:343:LEU:HG	2.46	0.43
1:A:311:LEU:HD23	1:A:311:LEU:HA	1.85	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:262:ILE:CD1	1:B:443:LYS:O	2.68	0.42
1:A:369:LEU:HD12	1:A:369:LEU:HA	1.75	0.42
1:B:434:HIS:C	1:B:436:TYR:H	2.23	0.42
1:B:320:PHE:CE1	1:B:325:VAL:HG21	2.53	0.42
1:B:452:GLU:OE2	2:D:689:ILE:N	2.52	0.42
1:A:368:THR:CG2	1:A:399:LEU:HB2	2.49	0.42
1:B:300:LEU:HD21	1:B:382:ILE:HD11	2.02	0.42
1:A:441:GLU:C	1:A:443:LYS:H	2.24	0.42
1:B:282:TRP:CH2	1:B:286:ILE:HD11	2.54	0.42
1:A:421:LEU:N	1:A:422:PRO:HD3	2.35	0.41
1:A:440:LEU:C	1:A:442:GLY:H	2.24	0.41
1:B:322:ASP:HA	1:B:350:LEU:HD13	2.02	0.41
1:B:343:LEU:O	1:B:343:LEU:HD23	2.20	0.41
1:A:242:LEU:HD22	1:A:363:LYS:HD3	2.03	0.41
1:B:248:LYS:O	1:B:249:ILE:HG13	2.21	0.41
1:B:266:THR:HG21	1:B:445:PRO:HG2	2.01	0.41
1:B:268:LEU:CD1	1:B:268:LEU:N	2.83	0.41
1:A:454:LEU:HD12	1:A:454:LEU:HA	1.73	0.41
1:A:324:LEU:HD12	1:A:346:ASN:CG	2.40	0.41
1:A:410:ASP:HA	1:A:411:PRO:HD2	1.83	0.41
1:B:352:LEU:HA	1:B:352:LEU:HD23	1.94	0.40
1:B:306:MET:HE2	1:B:310:ILE:HD11	2.02	0.40
1:A:447:HIS:O	1:A:451:LEU:HD22	2.22	0.40
1:B:399:LEU:O	1:B:403:GLU:HG2	2.21	0.40
1:B:311:LEU:HD23	1:B:311:LEU:HA	1.92	0.40
1:A:347:ASN:HA	1:A:347:ASN:HD22	1.59	0.40
1:A:449:LEU:HD23	1:A:449:LEU:HA	1.87	0.40
1:B:334:GLU:O	1:B:335:ASP:C	2.60	0.40
1:B:338:LYS:CG	1:B:343:LEU:HG	2.50	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone ⓘ

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	220/230 (96%)	206 (94%)	11 (5%)	3 (1%)	16	41
1	B	220/230 (96%)	197 (90%)	18 (8%)	5 (2%)	10	24
2	C	8/15 (53%)	7 (88%)	1 (12%)	0	100	100
2	D	9/15 (60%)	8 (89%)	1 (11%)	0	100	100
All	All	457/490 (93%)	418 (92%)	31 (7%)	8 (2%)	13	31

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	259	ASP
1	A	442	GLY
1	B	325	VAL
1	B	334	GLU
1	B	330	TYR
1	B	455	GLU
1	A	441	GLU
1	A	455	GLU

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	193/203 (95%)	178 (92%)	15 (8%)	18	40
1	B	191/203 (94%)	174 (91%)	17 (9%)	14	31
2	C	7/14 (50%)	7 (100%)	0	100	100
2	D	8/14 (57%)	8 (100%)	0	100	100
All	All	399/434 (92%)	367 (92%)	32 (8%)	17	37

All (32) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	265	LEU
1	A	268	LEU
1	A	271	LEU
1	A	275	GLU

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Mol	Chain	Res	Type
1	A	318	LEU
1	A	321	GLU
1	A	335	ASP
1	A	345	LEU
1	A	382	ILE
1	A	390	LYS
1	A	409	GLU
1	A	433	GLN
1	A	440	LEU
1	A	449	LEU
1	A	451	LEU
1	B	242	LEU
1	B	243	VAL
1	B	247	GLU
1	B	267	THR
1	B	270	ASP
1	B	271	LEU
1	B	275	GLU
1	B	303	SER
1	B	317	SER
1	B	328	ASP
1	B	330	TYR
1	B	331	ILE
1	B	347	ASN
1	B	390	LYS
1	B	439	LYS
1	B	449	LEU
1	B	451	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	347	ASN
1	A	392	GLN
1	A	433	GLN
1	A	437	ASN
1	B	346	ASN
1	B	392	GLN
1	B	396	HIS
1	B	400	GLN
1	B	434	HIS
1	B	437	ASN

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Mol	Chain	Res	Type
2	D	691	HIS

5.3.3 RNA ⓘ

There are no RNA chains 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 ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

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, 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	222/230 (96%)	-0.36	0 100 100	48, 69, 94, 106	0
1	B	222/230 (96%)	0.01	11 (4%) 28 30	48, 82, 123, 131	0
2	C	10/15 (66%)	0.09	0 100 100	83, 87, 92, 94	0
2	D	11/15 (73%)	0.82	1 (9%) 9 9	106, 112, 115, 116	0
All	All	465/490 (94%)	-0.15	12 (2%) 53 59	48, 76, 115, 131	0

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	338	LYS	3.6
1	B	256	THR	3.5
2	D	687	HIS	3.2
1	B	294	LEU	2.7
1	B	443	LYS	2.6
1	B	257	VAL	2.6
1	B	343	LEU	2.6
1	B	258	PRO	2.5
1	B	254	ASP	2.5
1	B	440	LEU	2.2
1	B	253	PRO	2.1
1	B	247	GLU	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 ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

There are no ligands in this entry.

6.5 Other polymers ⓘ

There are no such residues in this entry.