



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 06:07 PM UTC

PDB ID : 3R7N / pdb_00003r7n
Title : Caspase-2 bound with two copies of Ac-DVAD-CHO
Authors : Tang, Y.; Wells, J.; Arkin, M.
Deposited on : 2011-03-22
Resolution : 2.33 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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

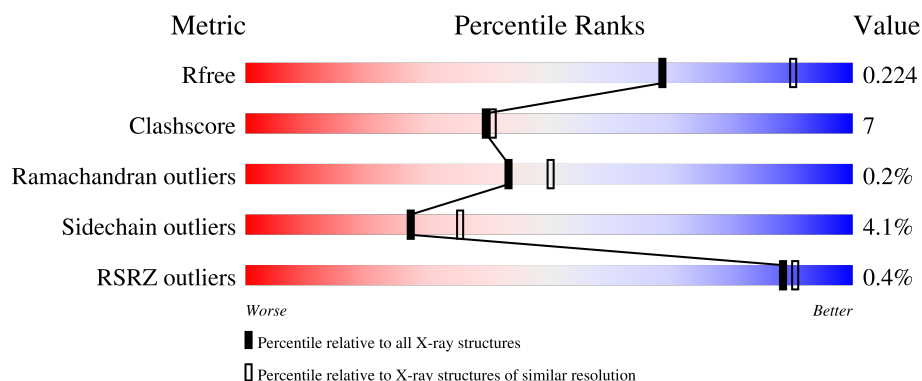
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.33 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}	180053	3031 (2.36-2.32)
Clashscore	190562	3127 (2.36-2.32)
Ramachandran outliers	187476	3095 (2.36-2.32)
Sidechain outliers	187428	3095 (2.36-2.32)
RSRZ outliers	180081	3033 (2.36-2.32)

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 $\leq 5\%$. 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	160	% 81% 12% ..
1	C	160	78% 18% .
2	B	112	% 75% 12% 12%
2	D	112	76% 11% 13%
3	E	5	80% 20%

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Mol	Chain	Length	Quality of chain
3	F	5	 80%20%

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 criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	ASA	E	406	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4280 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 Caspase-2 subunit p18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	154	Total	C	N	O	S	0	0	0
			1211	769	211	223	8			
1	C	160	Total	C	N	O	S	0	0	0
			1259	795	218	238	8			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	174	MET	-	expression tag	UNP P42575
C	174	MET	-	expression tag	UNP P42575

- Molecule 2 is a protein called Caspase-2 subunit p12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	98	Total	C	N	O	S	0	0	0
			768	481	138	137	12			
2	D	97	Total	C	N	O	S	0	1	0
			768	482	138	135	13			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	453	LEU	-	expression tag	UNP P42575
B	454	GLU	-	expression tag	UNP P42575
B	455	HIS	-	expression tag	UNP P42575
B	456	HIS	-	expression tag	UNP P42575
B	457	HIS	-	expression tag	UNP P42575
B	458	HIS	-	expression tag	UNP P42575
B	459	HIS	-	expression tag	UNP P42575
B	460	HIS	-	expression tag	UNP P42575
D	453	LEU	-	expression tag	UNP P42575
D	454	GLU	-	expression tag	UNP P42575

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Chain	Residue	Modelled	Actual	Comment	Reference
D	455	HIS	-	expression tag	UNP P42575
D	456	HIS	-	expression tag	UNP P42575
D	457	HIS	-	expression tag	UNP P42575
D	458	HIS	-	expression tag	UNP P42575
D	459	HIS	-	expression tag	UNP P42575
D	460	HIS	-	expression tag	UNP P42575

- Molecule 3 is a protein called Peptide Inhibitor (ACE)DVAD-CHO.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	F	5	Total	C	N	O	0	0	0
			31	18	4	9			
3	E	5	Total	C	N	O	0	0	0
			31	18	4	9			

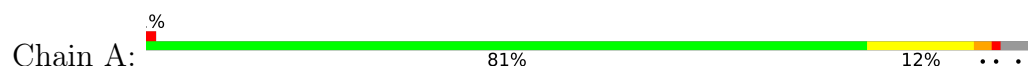
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	59	Total	O	0	0
			59	59		
4	B	42	Total	O	0	0
			42	42		
4	C	70	Total	O	0	0
			70	70		
4	D	40	Total	O	0	0
			40	40		
4	F	1	Total	O	0	0
			1	1		

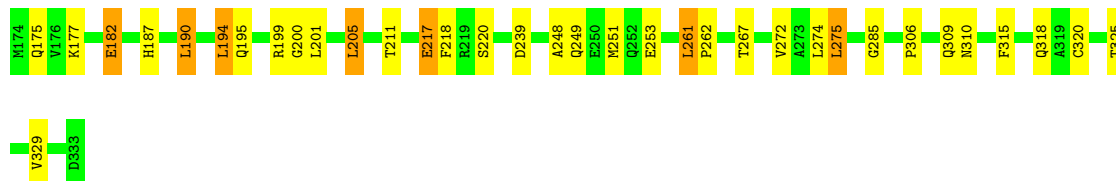
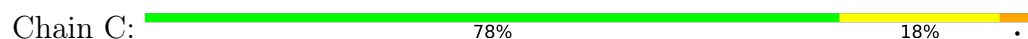
3 Residue-property plots [i](#)

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.

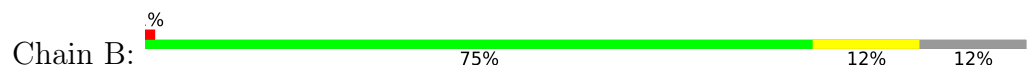
- Molecule 1: Caspase-2 subunit p18



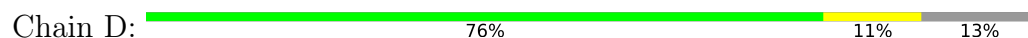
- Molecule 1: Caspase-2 subunit p18



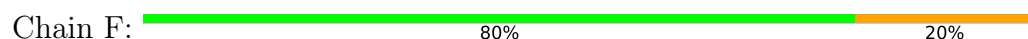
- Molecule 2: Caspase-2 subunit p12



- Molecule 2: Caspase-2 subunit p12



- Molecule 3: Peptide Inhibitor (ACE)DVAD-CHO





- Molecule 3: Peptide Inhibitor (ACE)DVAD-CHO

Chain E:  80% 20%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	62.88Å 96.86Å 98.14Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 2.33 50.00 – 2.33	Depositor EDS
% Data completeness (in resolution range)	99.3 (50.00-2.33) 99.5 (50.00-2.33)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	13.80 (at 2.32Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R, R_{free}	0.172 , 0.227 0.169 , 0.224	Depositor DCC
R_{free} test set	1326 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	22.6	Xtriage
Anisotropy	0.041	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 28.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.011 for -h,l,k	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4280	wwPDB-VP
Average B, all atoms (Å ²)	19.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.09% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ASA, ACE

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	1.11	0/1235	1.11	8/1670 (0.5%)
1	C	1.17	0/1284	1.09	4/1737 (0.2%)
2	B	1.15	0/786	1.06	0/1060
2	D	1.17	1/789 (0.1%)	1.15	3/1062 (0.3%)
3	E	0.91	0/20	0.92	0/27
3	F	1.00	0/20	1.08	0/27
All	All	1.15	1/4134 (0.0%)	1.10	15/5583 (0.3%)

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

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

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	446	PHE	C-O	-5.66	1.21	1.23

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	330	ASP	CA-C-N	7.89	136.62	121.54
1	A	330	ASP	C-N-CA	7.89	136.62	121.54
1	A	330	ASP	O-C-N	-6.73	114.48	122.96
1	A	285	GLY	N-CA-C	-6.53	103.81	112.82
2	D	374	THR	N-CA-C	6.19	119.23	110.14
1	A	331	GLN	CB-CA-C	5.72	121.81	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	279	VAL	N-CA-C	-5.55	102.05	108.82
1	A	277	HIS	N-CA-C	-5.44	102.47	110.52
2	D	424	THR	CA-C-N	5.43	128.10	120.28
2	D	424	THR	C-N-CA	5.43	128.10	120.28
1	C	211	THR	CA-C-N	-5.02	117.30	122.27
1	C	211	THR	C-N-CA	-5.02	117.30	122.27
1	A	317	ILE	CB-CA-C	-5.01	105.25	111.32
1	C	261	LEU	CA-C-N	5.01	124.62	119.56
1	C	261	LEU	C-N-CA	5.01	124.62	119.56

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	330	ASP	Peptide

5.2 Too-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 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	1211	0	1183	17	0
1	C	1259	0	1222	26	0
2	B	768	0	746	11	0
2	D	768	0	755	7	0
3	E	31	0	25	4	0
3	F	31	0	24	2	0
4	A	59	0	0	0	0
4	B	42	0	0	2	0
4	C	70	0	0	0	0
4	D	40	0	0	2	0
4	F	1	0	0	0	0
All	All	4280	0	3955	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:C:320:CYS:SG	3:F:406:ASA:C	2.04	1.45
1:A:320:CYS:SG	3:E:406:ASA:C	2.28	1.20
1:C:177:LYS:HD3	4:D:514:HOH:O	1.73	0.89
2:B:424:THR:HG23	2:B:426:PHE:H	1.44	0.82
1:C:194:LEU:CD2	1:C:199:ARG:HD2	2.13	0.78
2:B:421:ALA:O	2:B:424:THR:HG22	1.88	0.73
1:C:274:LEU:C	1:C:275:LEU:HD23	2.14	0.72
1:A:194:LEU:HD22	1:A:199:ARG:HD3	1.71	0.72
1:A:320:CYS:SG	3:E:406:ASA:HXT	2.34	0.66
1:C:187:HIS:O	1:C:190:LEU:HD22	1.98	0.63
2:D:392:GLN:O	2:D:396:GLU:HG2	1.99	0.62
1:C:194:LEU:HD22	1:C:199:ARG:HD2	1.80	0.61
1:A:331:GLN:HE22	1:C:310:ASN:HD21	1.49	0.60
1:C:320:CYS:SG	3:F:406:ASA:CA	2.89	0.59
1:A:320:CYS:SG	3:E:406:ASA:CA	2.91	0.58
1:C:274:LEU:O	1:C:275:LEU:HD23	2.05	0.56
2:B:397:ARG:CZ	2:B:401:MET:CE	2.84	0.55
1:C:248:ALA:HA	1:C:251:MET:HE3	1.90	0.54
1:A:320:CYS:SG	3:E:406:ASA:O	2.66	0.54
1:A:331:GLN:HB3	4:D:513:HOH:O	2.09	0.52
1:C:251:MET:HE2	1:C:285:GLY:HA2	1.93	0.51
1:C:251:MET:HE2	1:C:285:GLY:CA	2.41	0.51
1:A:200:GLY:HA2	1:A:267:THR:HB	1.93	0.49
1:C:205:LEU:C	1:C:205:LEU:HD13	2.39	0.48
1:A:309:GLN:O	1:A:310:ASN:HB2	2.13	0.48
2:B:357:ARG:HD3	4:B:519:HOH:O	2.13	0.48
4:B:512:HOH:O	2:D:357:ARG:HD2	2.12	0.48
1:A:176:VAL:HG22	2:B:395:SER:HA	1.96	0.47
1:C:200:GLY:HA2	1:C:267:THR:HB	1.97	0.46
1:C:182:GLU:CD	1:C:182:GLU:H	2.23	0.46
1:C:205:LEU:C	1:C:205:LEU:CD1	2.89	0.46
1:C:306:PRO:HA	1:C:309:GLN:HG3	1.97	0.46
1:C:195:GLN:OE1	2:D:450:PRO:HD3	2.16	0.46
1:A:275:LEU:HD12	1:A:275:LEU:N	2.31	0.45
2:D:377:MET:N	2:D:431:GLU:OE1	2.42	0.45
2:B:377:MET:N	2:B:431:GLU:OE1	2.40	0.45
2:B:370:CYS:HA	2:B:432:MET:O	2.17	0.45
1:A:218:PHE:CE2	1:A:220:SER:HB2	2.52	0.44
1:C:275:LEU:HD22	1:C:318:GLN:HB3	2.00	0.43
1:A:332:GLN:HE21	1:A:332:GLN:HB3	1.46	0.43
1:A:248:ALA:HA	1:A:251:MET:HE2	2.01	0.43
1:A:194:LEU:HD13	2:B:445:LEU:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:261:LEU:HA	1:C:262:PRO:HD3	1.91	0.42
1:C:217:GLU:O	1:C:218:PHE:C	2.62	0.42
1:C:272:VAL:O	1:C:315:PHE:HA	2.20	0.41
2:B:397:ARG:NH2	2:B:401:MET:CE	2.83	0.41
1:C:220:SER:HB2	2:D:380:THR:HG22	2.02	0.41
2:B:377:MET:HE2	2:B:429:CYS:SG	2.61	0.41
1:A:193:ARG:HE	1:A:193:ARG:HB2	1.70	0.41
1:C:177:LYS:O	2:D:399:CYS:HB3	2.20	0.41
1:C:249:GLN:O	1:C:253:GLU:HG3	2.21	0.40
1:A:331:GLN:HE22	1:C:310:ASN:ND2	2.16	0.40
2:B:397:ARG:CZ	2:B:401:MET:HE3	2.50	0.40
2:D:377:MET:HE2	2:D:429:CYS:SG	2.61	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	150/160 (94%)	145 (97%)	4 (3%)	1 (1%)	18	18
1	C	158/160 (99%)	152 (96%)	6 (4%)	0	100	100
2	B	96/112 (86%)	94 (98%)	2 (2%)	0	100	100
2	D	96/112 (86%)	93 (97%)	3 (3%)	0	100	100
3	E	3/5 (60%)	3 (100%)	0	0	100	100
3	F	3/5 (60%)	3 (100%)	0	0	100	100
All	All	506/554 (91%)	490 (97%)	15 (3%)	1 (0%)	43	50

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	331	GLN

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	132/140 (94%)	126 (96%)	6 (4%)	24	32
1	C	138/140 (99%)	127 (92%)	11 (8%)	11	12
2	B	81/96 (84%)	80 (99%)	1 (1%)	63	75
2	D	82/96 (85%)	82 (100%)	0	100	100
3	E	2/2 (100%)	2 (100%)	0	100	100
3	F	2/2 (100%)	2 (100%)	0	100	100
All	All	437/476 (92%)	419 (96%)	18 (4%)	27	35

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	177	LYS
1	A	194	LEU
1	A	199	ARG
1	A	323	ASP
1	A	325	THR
1	A	332	GLN
2	B	452	THR
1	C	175	GLN
1	C	182	GLU
1	C	190	LEU
1	C	194	LEU
1	C	201	LEU
1	C	205	LEU
1	C	217	GLU
1	C	239	ASP
1	C	275	LEU
1	C	325	THR
1	C	329	VAL

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

Mol	Chain	Res	Type
1	A	257	ASN
1	A	331	GLN
1	A	332	GLN
1	C	175	GLN
1	C	257	ASN
2	D	402	HIS
2	D	449	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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	$\# Z > 2$
3	ASA	F	406	3	6,7,7	1.08	0	4,8,8	1.41	1 (25%)
3	ASA	E	406	3	6,7,7	1.09	0	4,8,8	1.25	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
3	ASA	F	406	3	-	2/5/6/6	-
3	ASA	E	406	3	-	2/5/6/6	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	406	ASA	OD1-CG-CB	-2.24	115.97	122.84

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	F	406	ASA	C-CA-CB-CG
3	E	406	ASA	C-CA-CB-CG
3	F	406	ASA	N-CA-CB-CG
3	E	406	ASA	N-CA-CB-CG

There are no ring outliers.

2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	F	406	ASA	2	0
3	E	406	ASA	4	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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	154/160 (96%)	-0.50	1 (0%) 85 88	10, 19, 31, 41	4 (2%)
1	C	160/160 (100%)	-0.48	0 100 100	10, 18, 34, 46	2 (1%)
2	B	98/112 (87%)	-0.39	1 (1%) 79 82	9, 17, 41, 53	1 (1%)
2	D	97/112 (86%)	-0.56	0 100 100	9, 16, 29, 40	3 (3%)
3	E	3/5 (60%)	-0.24	0 100 100	24, 24, 26, 29	0
3	F	3/5 (60%)	-0.27	0 100 100	20, 20, 21, 22	0
All	All	515/554 (92%)	-0.48	2 (0%) 88 90	9, 18, 34, 53	10 (1%)

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	452	THR	3.2
1	A	323	ASP	2.1

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. 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	ASA	E	406	8/8	0.92	0.10	28,33,34,35	0
3	ASA	F	406	8/8	0.98	0.05	22,23,25,25	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.