



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 31, 2016 – 07:19 PM GMT

PDB ID : 1EZU
Title : ECOTIN Y69F, D70P BOUND TO D102N TRYPSIN
Authors : Gillmor, S.A.; Takeuchi, T.; Yang, S.Q.; Craik, C.S.; Fletterick, R.J.
Deposited on : 2000-05-11
Resolution : 2.40 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 ⓘ symbol.

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

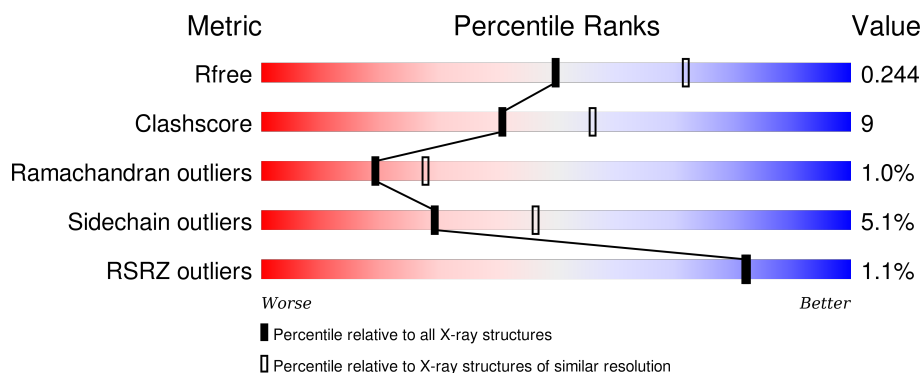
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	2919 (2.40-2.40)
Clashscore	102246	3407 (2.40-2.40)
Ramachandran outliers	100387	3351 (2.40-2.40)
Sidechain outliers	100360	3352 (2.40-2.40)
RSRZ outliers	91569	2928 (2.40-2.40)

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 $\leq 5\%$. 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	142	<div> <div>2%</div> <div>77%</div> <div>20%</div> <div>..</div> </div>
1	B	142	<div> <div>85%</div> <div>12%</div> <div>..</div> </div>
2	C	223	<div> <div>76%</div> <div>22%</div> <div>.</div> </div>
2	D	223	<div> <div>2%</div> <div>74%</div> <div>22%</div> <div>.</div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5554 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 ECOTIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	140	Total	C	N	O	S	0	0	0
			1099	704	182	207	6			
1	B	140	Total	C	N	O	S	0	0	0
			1099	704	182	207	6			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	69	PHE	TYR	ENGINEERED	UNP P23827
A	70	PRO	ASP	ENGINEERED	UNP P23827
B	269	PHE	TYR	ENGINEERED	UNP P23827
B	270	PRO	ASP	ENGINEERED	UNP P23827

- Molecule 2 is a protein called TRYPSIN II, ANIONIC.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	223	Total	C	N	O	S	0	0	0
			1656	1036	281	325	14			
2	D	223	Total	C	N	O	S	0	0	0
			1656	1036	281	325	14			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	479	ASP	ASN	SEE REMARK 999	UNP P00763
C	502	ASN	ASP	ENGINEERED	UNP P00763
D	779	ASP	ASN	SEE REMARK 999	UNP P00763
D	802	ASN	ASP	ENGINEERED	UNP P00763

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	D	1	Total Ca 1 1	0	0
3	C	1	Total Ca 1 1	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	9	Total O 9 9	0	0
4	B	9	Total O 9 9	0	0
4	C	12	Total O 12 12	0	0
4	D	12	Total O 12 12	0	0

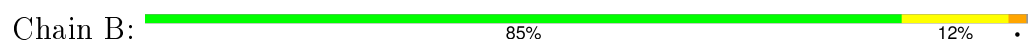
3 Residue-property plots [i](#)

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.

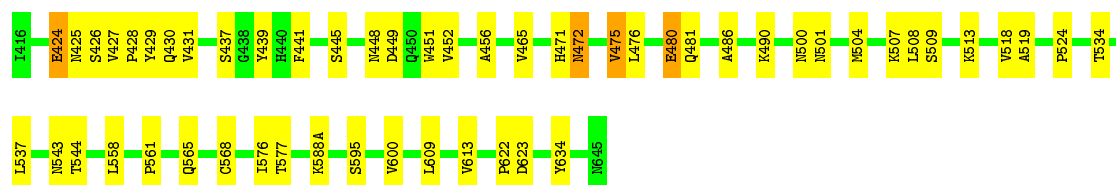
- Molecule 1: ECOTIN



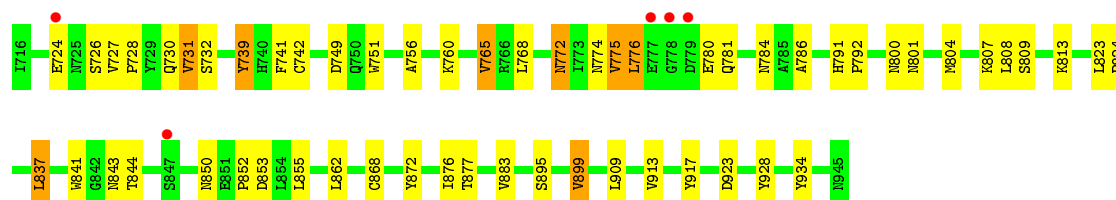
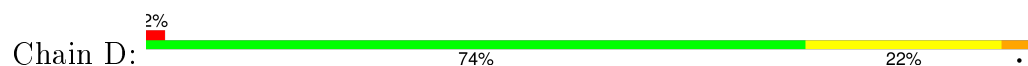
- Molecule 1: ECOTIN



- Molecule 2: TRYPSIN II, ANIONIC



- Molecule 2: TRYPSIN II, ANIONIC



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	62.92Å 82.75Å 81.75Å 90.00° 97.24° 90.00°	Depositor
Resolution (Å)	25.00 – 2.40 26.50 – 2.40	Depositor EDS
% Data completeness (in resolution range)	92.5 (25.00-2.40) 92.6 (26.50-2.40)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.29 (at 2.39Å)	Xtriage
Refinement program	X-PLOR 3.851	Depositor
R, R_{free}	0.218 , 0.265 0.207 , 0.244	Depositor DCC
R_{free} test set	1508 reflections (4.99%)	DCC
Wilson B-factor (Å ²)	39.3	Xtriage
Anisotropy	0.525	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 47.3	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 30238 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5554	wwPDB-VP
Average B, all atoms (Å ²)	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.71% 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, 0.375 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:
CA

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	0.56	0/1122	0.78	1/1521 (0.1%)
1	B	0.55	0/1122	0.78	0/1521
2	C	0.54	0/1691	0.73	1/2306 (0.0%)
2	D	0.53	0/1691	0.74	2/2306 (0.1%)
All	All	0.54	0/5626	0.75	4/7654 (0.1%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	899	VAL	N-CA-C	-5.50	96.14	111.00
1	A	81	VAL	N-CA-C	-5.45	96.27	111.00
2	C	437	SER	N-CA-C	-5.20	96.95	111.00
2	D	837	LEU	CA-CB-CG	5.11	127.05	115.30

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	1099	0	1095	22	0
1	B	1099	0	1095	13	0
2	C	1656	0	1586	28	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	D	1656	0	1586	41	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
4	A	9	0	0	1	0
4	B	9	0	0	0	0
4	C	12	0	0	1	0
4	D	12	0	0	1	0
All	All	5554	0	5362	94	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 (94) 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:86:ALA:HB3	2:D:741:PHE:HA	1.73	0.70
1:A:53:HIS:CD2	1:A:82:SER:HB3	2.27	0.70
2:D:824:PRO:HG3	2:D:909:LEU:O	1.93	0.68
1:A:133:GLU:HG2	1:B:329:VAL:O	1.97	0.64
2:D:772:ASN:HD22	2:D:774:ASN:H	1.44	0.63
2:C:481:GLN:HE22	2:C:513:LYS:H	1.48	0.61
1:B:253:HIS:CD2	1:B:282:SER:HB3	2.35	0.61
1:B:295:LYS:HB3	1:B:295:LYS:NZ	2.16	0.61
1:A:95:LYS:NZ	1:A:95:LYS:HB3	2.16	0.61
2:D:726:SER:C	2:D:728:PRO:HD3	2.22	0.60
2:D:781:GLN:HE22	2:D:813:LYS:H	1.47	0.60
2:C:568:CYS:SG	2:C:576:ILE:HD13	2.42	0.59
1:B:286:ALA:HB3	2:C:441:PHE:HA	1.86	0.57
2:D:768:LEU:HD12	2:D:768:LEU:N	2.20	0.56
2:C:565:GLN:HG3	4:C:8:HOH:O	2.05	0.56
1:A:17:GLU:HB2	1:A:20:MET:HE2	1.88	0.55
2:C:472:ASN:HB3	2:C:475:VAL:HG12	1.88	0.55
2:C:486:ALA:HB2	2:C:509:SER:HA	1.89	0.54
2:C:595:SER:HA	2:C:613:VAL:HB	1.89	0.54
2:C:524:PRO:HG3	2:C:609:LEU:O	2.08	0.54
1:A:85:MET:HE1	2:D:760:LYS:HZ1	1.73	0.54
2:D:786:ALA:HB2	2:D:809:SER:HA	1.90	0.54
2:D:772:ASN:HB3	2:D:775:VAL:HG12	1.89	0.54
1:A:72:TYR:N	1:A:72:TYR:CD1	2.77	0.52
2:C:544:THR:HG22	2:C:544:THR:O	2.09	0.51
2:D:844:THR:HG22	2:D:844:THR:O	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:500:ASN:OD1	2:C:577:THR:HG21	2.09	0.51
2:D:772:ASN:ND2	2:D:774:ASN:H	2.09	0.50
2:D:895:SER:HA	2:D:913:VAL:HB	1.93	0.50
2:D:872:TYR:HB2	2:D:876:ILE:HD11	1.92	0.50
2:D:801:ASN:HA	2:D:934:TYR:OH	2.12	0.50
2:D:727:VAL:HG12	2:D:730:GLN:HB2	1.94	0.49
1:A:95:LYS:HZ3	1:A:95:LYS:HB3	1.76	0.49
1:B:225:ILE:HB	1:B:315:ILE:HB	1.94	0.48
2:C:451:TRP:CE2	2:C:507:LYS:HG3	2.48	0.48
1:B:288:PRO:HG3	2:C:439:TYR:CZ	2.49	0.48
2:D:841:TRP:CZ2	2:D:855:LEU:HD13	2.49	0.48
2:D:800:ASN:OD1	2:D:877:THR:HG21	2.14	0.48
2:C:430:GLN:HG3	2:C:431:VAL:N	2.28	0.48
2:D:739:TYR:CD1	2:D:739:TYR:N	2.81	0.47
2:C:534:THR:O	2:C:561:PRO:HA	2.14	0.47
2:D:731:VAL:HG23	2:D:732:SER:N	2.29	0.47
2:D:775:VAL:HG13	2:D:776:LEU:N	2.29	0.47
2:C:424:GLU:HA	2:C:471:HIS:CD2	2.50	0.47
2:D:862:LEU:HD23	2:D:883:VAL:HG22	1.96	0.47
2:D:768:LEU:HD12	2:D:768:LEU:H	1.80	0.47
2:D:765:VAL:HG23	2:D:768:LEU:HD11	1.95	0.47
2:D:868:CYS:SG	2:D:876:ILE:HD13	2.56	0.46
1:A:61:ASN:ND2	1:A:72:TYR:CD2	2.84	0.46
1:A:129:VAL:O	1:B:333:GLU:HG2	2.15	0.46
1:A:132:ALA:HB2	1:B:330:TRP:CE2	2.52	0.45
2:D:727:VAL:N	2:D:728:PRO:HD3	2.31	0.45
1:A:37:LYS:HE2	4:A:147:HOH:O	2.17	0.45
2:C:429:TYR:CZ	2:C:600:VAL:HG21	2.52	0.45
2:D:765:VAL:HG21	2:D:808:LEU:HD21	1.98	0.45
2:C:426:SER:C	2:C:428:PRO:HD3	2.37	0.44
2:C:501:ASN:HA	2:C:634:TYR:OH	2.17	0.44
1:B:295:LYS:HB3	1:B:295:LYS:HZ3	1.82	0.44
1:B:261:ASN:ND2	1:B:272:TYR:CE1	2.85	0.44
1:A:61:ASN:ND2	1:A:72:TYR:CE2	2.86	0.44
1:A:59:LEU:HD11	1:A:72:TYR:HB3	2.00	0.43
2:D:872:TYR:HB2	2:D:876:ILE:CD1	2.48	0.43
1:A:46:LEU:O	1:A:94:LYS:HA	2.18	0.43
2:D:899:VAL:HG21	2:D:928:TYR:CD2	2.53	0.43
1:A:85:MET:HB2	2:D:742:CYS:SG	2.59	0.43
1:B:223:GLN:NE2	1:B:325:VAL:HG23	2.34	0.43
2:C:448:ASN:ND2	2:C:451:TRP:HB2	2.34	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:465:VAL:HG21	2:C:508:LEU:HD21	2.00	0.43
2:C:429:TYR:HA	2:C:519:ALA:O	2.19	0.42
2:D:844:THR:OG1	2:D:852:PRO:HG3	2.19	0.42
2:C:622:PRO:O	2:C:623:ASP:HB2	2.20	0.42
2:D:928:TYR:CD1	2:D:928:TYR:N	2.87	0.42
1:A:56:GLY:O	1:A:77:VAL:HA	2.20	0.42
1:B:248:VAL:HG22	1:B:253:HIS:CE1	2.55	0.42
2:D:784:ASN:HB2	4:D:104:HOH:O	2.20	0.41
2:C:480:GLU:H	2:C:480:GLU:HG2	1.59	0.41
2:D:756:ALA:HA	2:D:804:MET:HB2	2.01	0.41
1:B:264:LEU:HA	1:B:264:LEU:HD12	1.94	0.41
2:D:844:THR:HB	2:D:850:ASN:HD22	1.85	0.41
2:D:751:TRP:CH2	2:D:807:LYS:HB2	2.55	0.41
2:C:427:VAL:HG12	2:C:430:GLN:HB2	2.03	0.41
1:A:88:PRO:HG3	2:D:739:TYR:CZ	2.54	0.41
1:A:79:SER:HB2	2:D:917:TYR:HE1	1.85	0.41
1:A:73:VAL:HG22	1:A:118:TYR:HB2	2.03	0.41
2:D:823:LEU:HA	2:D:823:LEU:HD23	1.89	0.41
2:C:428:PRO:HB2	2:C:519:ALA:HB3	2.03	0.41
2:C:456:ALA:HA	2:C:504:MET:HB2	2.03	0.41
2:C:558:LEU:HD11	2:C:588(A):LYS:HB3	2.01	0.41
2:C:445:SER:O	2:C:452:VAL:HA	2.20	0.41
1:A:87:CYS:HA	1:A:88:PRO:HD3	1.93	0.40
2:D:726:SER:O	2:D:728:PRO:HD3	2.20	0.40
2:D:843:ASN:OD1	2:D:844:THR:N	2.54	0.40
1:A:89:ASP:C	1:A:91:LYS:N	2.74	0.40
2:D:791:HIS:HA	2:D:792:PRO:HD3	1.89	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	138/142 (97%)	131 (95%)	5 (4%)	2 (1%)	14	19
1	B	138/142 (97%)	135 (98%)	2 (1%)	1 (1%)	26	38
2	C	221/223 (99%)	204 (92%)	14 (6%)	3 (1%)	14	19
2	D	221/223 (99%)	207 (94%)	13 (6%)	1 (0%)	34	48
All	All	718/730 (98%)	677 (94%)	34 (5%)	7 (1%)	19	28

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	88	PRO
1	B	288	PRO
2	C	449	ASP
2	D	749	ASP
1	A	49	ASP
2	C	425	ASN
2	C	543	ASN

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	119/125 (95%)	113 (95%)	6 (5%)	30	48
1	B	119/125 (95%)	113 (95%)	6 (5%)	30	48
2	C	183/185 (99%)	175 (96%)	8 (4%)	35	53
2	D	183/185 (99%)	172 (94%)	11 (6%)	24	37
All	All	604/620 (97%)	573 (95%)	31 (5%)	29	46

All (31) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	38	VAL
1	A	48	VAL
1	A	70	PRO
1	A	85	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	95	LYS
1	A	136	ILE
1	B	238	VAL
1	B	248	VAL
1	B	270	PRO
1	B	295	LYS
1	B	336	ILE
1	B	337	ASP
2	C	424	GLU
2	C	472	ASN
2	C	475	VAL
2	C	476	LEU
2	C	480	GLU
2	C	490	LYS
2	C	518	VAL
2	C	537	LEU
2	D	724	GLU
2	D	731	VAL
2	D	739	TYR
2	D	765	VAL
2	D	772	ASN
2	D	775	VAL
2	D	776	LEU
2	D	780	GLU
2	D	837	LEU
2	D	853	ASP
2	D	923	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	53	HIS
1	A	61	ASN
1	B	253	HIS
1	B	261	ASN
2	C	472	ASN
2	C	481	GLN
2	C	550	ASN
2	C	633	ASN
2	D	772	ASN
2	D	781	GLN
2	D	850	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	D	933	ASN

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

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.

5.7 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	140/142 (98%)	-0.38	3 (2%) 67 66	20, 44, 73, 100	0
1	B	140/142 (98%)	-0.46	0 100 100	24, 44, 74, 99	0
2	C	223/223 (100%)	-0.41	0 100 100	16, 38, 61, 85	0
2	D	223/223 (100%)	-0.26	5 (2%) 65 64	20, 40, 69, 96	0
All	All	726/730 (99%)	-0.37	8 (1%) 82 82	16, 42, 71, 100	0

All (8) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	777	GLU	5.1
1	A	3	SER	5.1
1	A	4	VAL	4.8
2	D	778	GLY	3.3
2	D	779	ASP	2.9
2	D	847	SER	2.9
2	D	724	GLU	2.1
1	A	5	GLN	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 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(\AA^2)	Q<0.9
3	CA	D	950	1/1	0.86	0.09	-1.00	80,80,80,80	0
3	CA	C	650	1/1	0.94	0.06	-3.23	47,47,47,47	0

6.5 Other polymers [i](#)

There are no such residues in this entry.