



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 07:18 AM UTC

PDB ID : 4OZI / pdb_00004ozi
Title : S2 protein complex
Authors : Petersen, J.; Reid, H.H.; Rossjohn, J.
Deposited on : 2014-02-16
Resolution : 3.20 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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

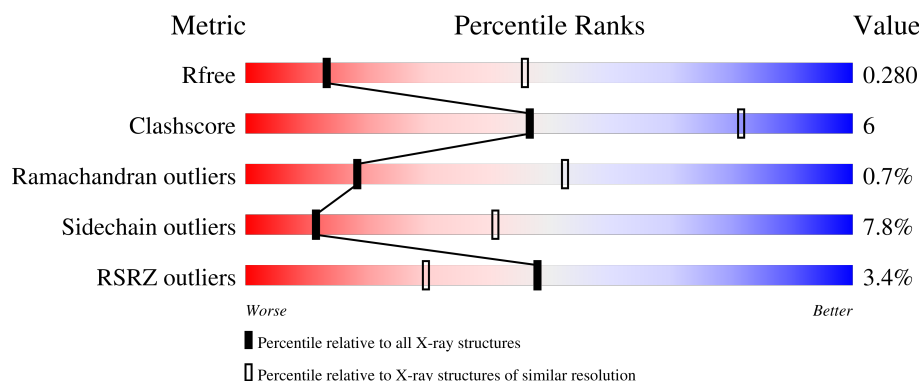
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 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	1466 (3.20-3.20)
Clashscore	190562	1573 (3.20-3.20)
Ramachandran outliers	187476	1548 (3.20-3.20)
Sidechain outliers	187428	1547 (3.20-3.20)
RSRZ outliers	180081	1466 (3.20-3.20)

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	191	83% 12% • 5%
1	C	191	83% 11% • 5%
2	B	213	4% 71% 13% 15%
2	D	213	3% 74% 10% 15%
3	E	207	5% 74% 19% • •

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Mol	Chain	Length	Quality of chain
3	G	207	5% 79% 14%
4	F	244	4% 80% 16%
4	H	244	2% 77% 19%
5	I	13	85% 15%
5	J	13	69% 15% 15%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 12849 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 HLA class II histocompatibility antigen, DQ alpha 1 chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	181	Total	C	N	O	S	0	0	0
			1445	931	236	275	3			
1	C	181	Total	C	N	O	S	0	0	0
			1445	931	236	275	3			

- Molecule 2 is a protein called HLA class II histocompatibility antigen, DQ beta 1 chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	180	Total	C	N	O	S	0	0	0
			1462	926	257	272	7			
2	D	181	Total	C	N	O	S	0	0	0
			1464	926	257	274	7			

There are 42 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-12	GLY	-	expression tag	UNP Q5Y7D3
B	-11	GLY	-	expression tag	UNP Q5Y7D3
B	-10	SER	-	expression tag	UNP Q5Y7D3
B	-9	ILE	-	expression tag	UNP Q5Y7D3
B	-8	GLU	-	expression tag	UNP Q5Y7D3
B	-7	GLY	-	expression tag	UNP Q5Y7D3
B	-6	ARG	-	expression tag	UNP Q5Y7D3
B	-5	GLY	-	expression tag	UNP Q5Y7D3
B	-4	GLY	-	expression tag	UNP Q5Y7D3
B	-3	SER	-	expression tag	UNP Q5Y7D3
B	-2	GLY	-	expression tag	UNP Q5Y7D3
B	-1	ALA	-	expression tag	UNP Q5Y7D3
B	0	SER	-	expression tag	UNP Q5Y7D3
B	193	THR	-	expression tag	UNP Q5Y7D3
B	194	GLY	-	expression tag	UNP Q5Y7D3
B	195	GLY	-	expression tag	UNP Q5Y7D3

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Chain	Residue	Modelled	Actual	Comment	Reference
B	196	ASP	-	expression tag	UNP Q5Y7D3
B	197	ASP	-	expression tag	UNP Q5Y7D3
B	198	ASP	-	expression tag	UNP Q5Y7D3
B	199	ASP	-	expression tag	UNP Q5Y7D3
B	200	LYS	-	expression tag	UNP Q5Y7D3
D	-12	GLY	-	expression tag	UNP Q5Y7D3
D	-11	GLY	-	expression tag	UNP Q5Y7D3
D	-10	SER	-	expression tag	UNP Q5Y7D3
D	-9	ILE	-	expression tag	UNP Q5Y7D3
D	-8	GLU	-	expression tag	UNP Q5Y7D3
D	-7	GLY	-	expression tag	UNP Q5Y7D3
D	-6	ARG	-	expression tag	UNP Q5Y7D3
D	-5	GLY	-	expression tag	UNP Q5Y7D3
D	-4	GLY	-	expression tag	UNP Q5Y7D3
D	-3	SER	-	expression tag	UNP Q5Y7D3
D	-2	GLY	-	expression tag	UNP Q5Y7D3
D	-1	ALA	-	expression tag	UNP Q5Y7D3
D	0	SER	-	expression tag	UNP Q5Y7D3
D	193	THR	-	expression tag	UNP Q5Y7D3
D	194	GLY	-	expression tag	UNP Q5Y7D3
D	195	GLY	-	expression tag	UNP Q5Y7D3
D	196	ASP	-	expression tag	UNP Q5Y7D3
D	197	ASP	-	expression tag	UNP Q5Y7D3
D	198	ASP	-	expression tag	UNP Q5Y7D3
D	199	ASP	-	expression tag	UNP Q5Y7D3
D	200	LYS	-	expression tag	UNP Q5Y7D3

- Molecule 3 is a protein called T-cell receptor, s2, alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	E	199	Total	C	N	O	S	0	0	0
			1537	970	255	304	8			
3	G	199	Total	C	N	O	S	0	0	0
			1524	962	254	300	8			

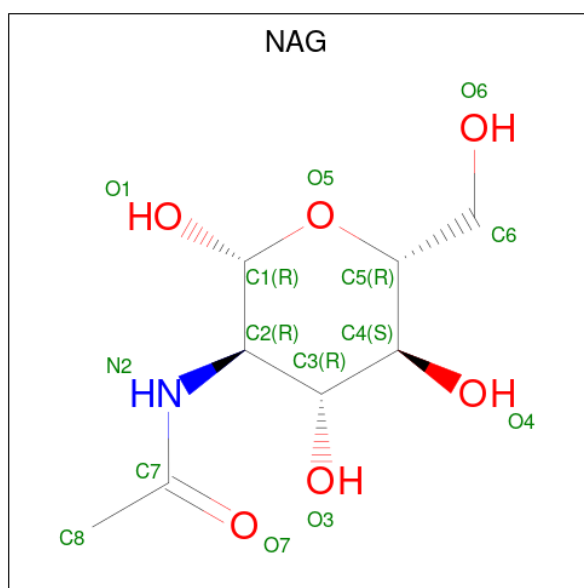
- Molecule 4 is a protein called T-cell receptor, s2, beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	F	243	Total	C	N	O	S	0	0	0
			1882	1193	319	361	9			
4	H	243	Total	C	N	O	S	0	0	0
			1882	1193	318	362	9			

- Molecule 5 is a protein called deamidated Gliadin-alpha1 peptide.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	I	11	Total	C	N	O	0	0	0
			89	62	12	15			
5	J	11	Total	C	N	O	0	0	0
			89	62	12	15			

- Molecule 6 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: $C_8H_{15}NO_6$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	A	1	Total	C	N	O	0	0
			14	8	1	5		
6	C	1	Total	C	N	O	0	0
			14	8	1	5		

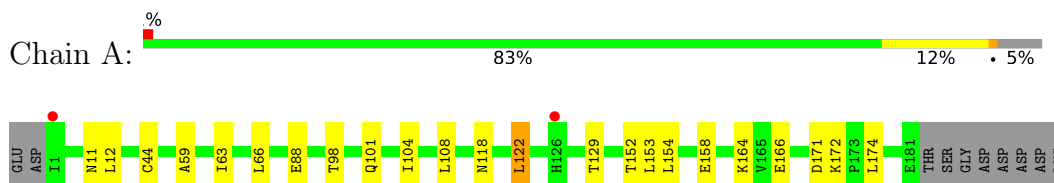
- Molecule 7 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	B	1	Total	Ca	0	0
			1	1		
7	D	1	Total	Ca	0	0
			1	1		

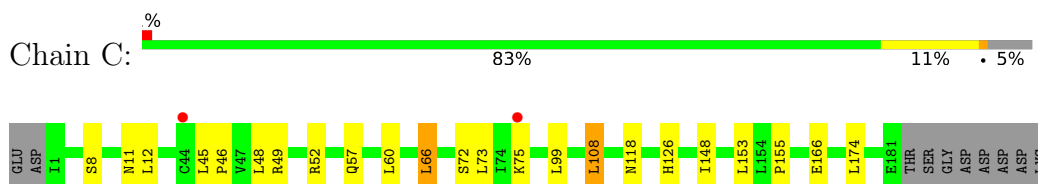
3 Residue-property plots [i](#)

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.

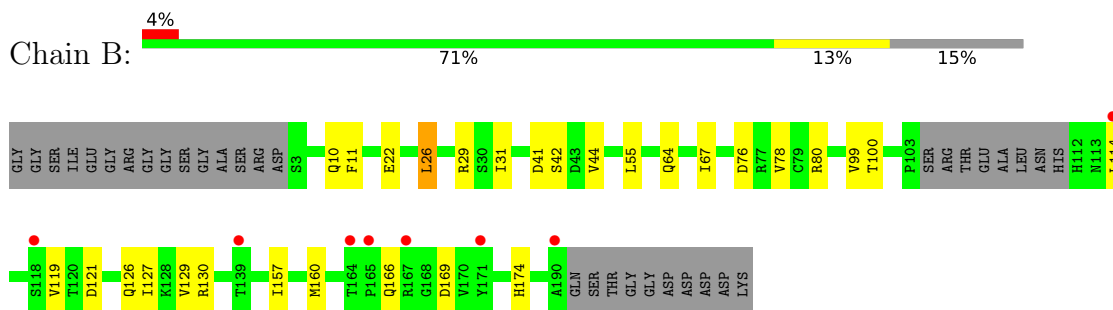
- Molecule 1: HLA class II histocompatibility antigen, DQ alpha 1 chain



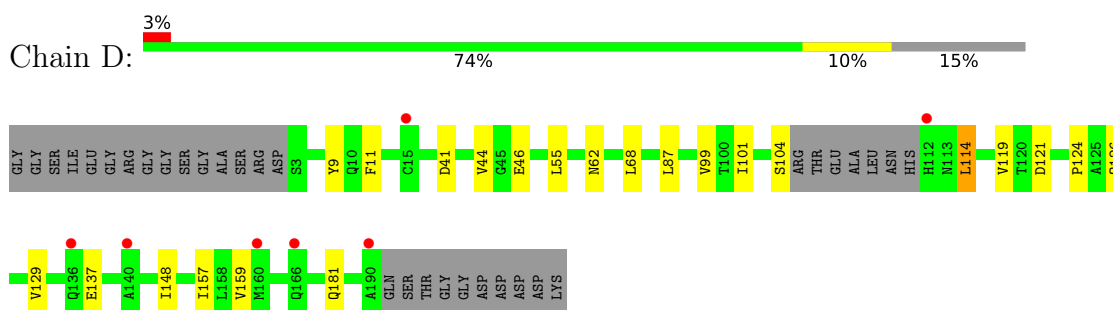
- Molecule 1: HLA class II histocompatibility antigen, DQ alpha 1 chain



- Molecule 2: HLA class II histocompatibility antigen, DQ beta 1 chain

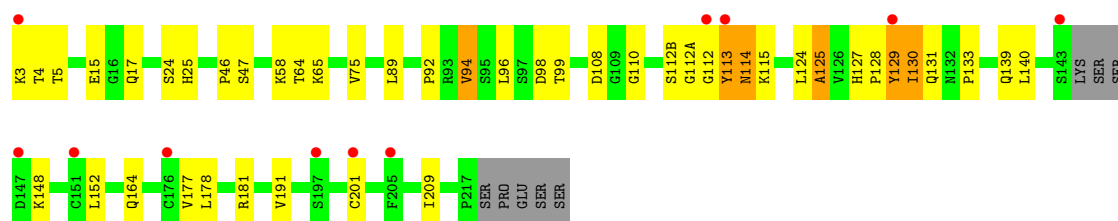


- Molecule 2: HLA class II histocompatibility antigen, DQ beta 1 chain



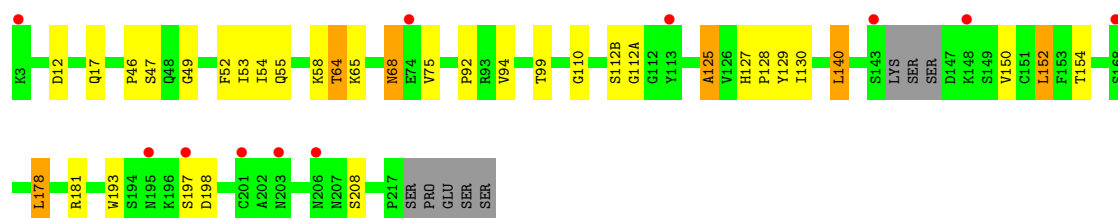
- Molecule 3: T-cell receptor, s2, alpha chain

Chain E: 



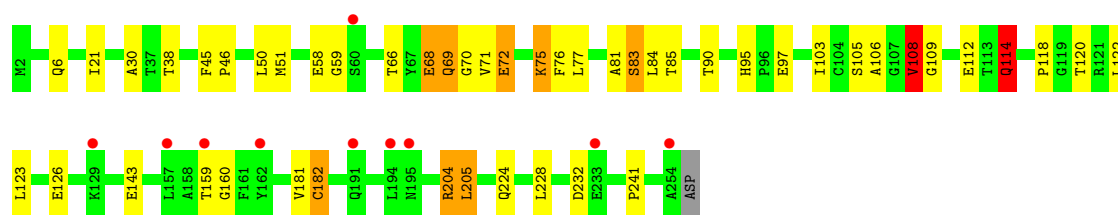
- Molecule 3: T-cell receptor, s2, alpha chain

Chain G: 



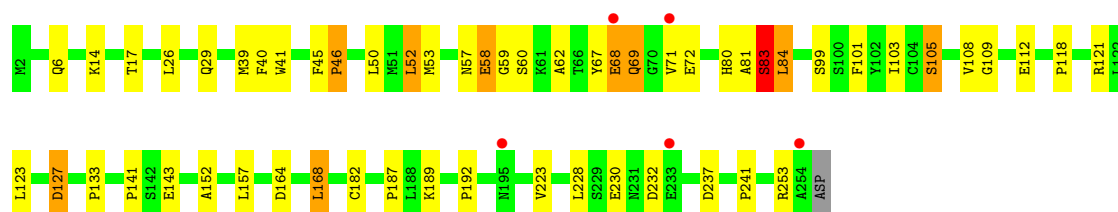
- Molecule 4: T-cell receptor, s2, beta chain

Chain F: 



- Molecule 4: T-cell receptor, s2, beta chain

Chain H: 



- Molecule 5: deamidated Gliadin-alpha1 peptide

Chain I: 



- Molecule 5: deamidated Gliadin-alpha1 peptide



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	233.03Å 142.24Å 101.09Å 90.00° 109.79° 90.00°	Depositor
Resolution (Å)	46.85 – 3.20 46.85 – 3.20	Depositor EDS
% Data completeness (in resolution range)	96.0 (46.85-3.20) 96.0 (46.85-3.20)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.82 (at 3.19Å)	Xtriage
Refinement program	BUSTER 2.10.0	Depositor
R, R_{free}	0.212 , 0.243 0.242 , 0.280	Depositor DCC
R_{free} test set	2543 reflections (5.17%)	wwPDB-VP
Wilson B-factor (Å ²)	50.8	Xtriage
Anisotropy	0.733	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 57.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.39$, $\langle L^2 \rangle = 0.22$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	12849	wwPDB-VP
Average B, all atoms (Å ²)	58.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.58% 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: CA, NAG

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	0.74	0/1487	1.11	0/2031
1	C	0.73	0/1487	1.12	0/2031
2	B	0.73	0/1495	1.12	0/2034
2	D	0.75	0/1497	1.11	2/2038 (0.1%)
3	E	0.96	2/1573 (0.1%)	1.09	1/2141 (0.0%)
3	G	0.87	3/1560 (0.2%)	1.13	9/2125 (0.4%)
4	F	0.83	1/1934 (0.1%)	1.10	4/2640 (0.2%)
4	H	0.80	0/1934	1.06	1/2641 (0.0%)
5	I	0.81	0/95	0.98	0/133
5	J	0.73	0/95	0.80	0/133
All	All	0.81	6/13157 (0.0%)	1.10	17/17947 (0.1%)

The worst 5 of 6 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	E	58	LYS	C-N	-16.49	1.10	1.33
3	E	125	ALA	C-O	-5.86	1.17	1.24
4	F	108	VAL	CA-C	5.65	1.59	1.52
3	G	127	HIS	C-N	5.49	1.40	1.33
3	G	125	ALA	CA-CB	-5.17	1.45	1.53

The worst 5 of 17 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	85	THR	N-CA-C	6.38	118.31	111.36
3	G	110	GLY	CA-C-N	6.26	129.52	120.38
3	G	110	GLY	C-N-CA	6.26	129.52	120.38
3	G	127	HIS	CA-C-N	-6.23	114.21	120.31
3	G	127	HIS	C-N-CA	-6.23	114.21	120.31

There are no chirality outliers.

There are no planarity outliers.

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	1445	0	1397	8	0
1	C	1445	0	1397	10	0
2	B	1462	0	1416	9	0
2	D	1464	0	1410	9	0
3	E	1537	0	1433	23	0
3	G	1524	0	1410	15	0
4	F	1882	0	1761	31	0
4	H	1882	0	1762	43	2
5	I	89	0	79	0	0
5	J	89	0	79	2	0
6	A	14	0	13	0	0
6	C	14	0	13	0	0
7	B	1	0	0	0	0
7	D	1	0	0	0	0
All	All	12849	0	12170	142	2

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.

The worst 5 of 142 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)
4:H:68:GLU:C	4:H:69:GLN:NE2	1.95	1.23
4:F:72:GLU:HB2	4:F:75:LYS:HB2	1.19	1.17
4:F:72:GLU:HG2	4:F:75:LYS:CD	1.76	1.15
4:F:72:GLU:CG	4:F:75:LYS:HD3	1.76	1.15
4:H:68:GLU:CA	4:H:69:GLN:NE2	2.18	1.06

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:237:ASP:OD1	4:H:253:ARG:NH2[2_859]	1.95	0.25
4:H:237:ASP:OD2	4:H:253:ARG:NH2[2_859]	2.08	0.12

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	179/191 (94%)	170 (95%)	9 (5%)	0	100	100
1	C	179/191 (94%)	172 (96%)	7 (4%)	0	100	100
2	B	176/213 (83%)	164 (93%)	11 (6%)	1 (1%)	21	56
2	D	177/213 (83%)	170 (96%)	6 (3%)	1 (1%)	21	56
3	E	195/207 (94%)	181 (93%)	11 (6%)	3 (2%)	8	37
3	G	195/207 (94%)	183 (94%)	11 (6%)	1 (0%)	24	59
4	F	241/244 (99%)	225 (93%)	14 (6%)	2 (1%)	16	50
4	H	241/244 (99%)	223 (92%)	14 (6%)	4 (2%)	7	35
5	I	9/13 (69%)	8 (89%)	1 (11%)	0	100	100
5	J	9/13 (69%)	8 (89%)	1 (11%)	0	100	100
All	All	1601/1736 (92%)	1504 (94%)	85 (5%)	12 (1%)	18	52

5 of 12 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	121	ASP
3	E	92	PRO
4	F	83	SER
4	F	160	GLY
3	G	92	PRO

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	165/174 (95%)	153 (93%)	12 (7%)	13	43
1	C	165/174 (95%)	156 (94%)	9 (6%)	19	52
2	B	161/188 (86%)	148 (92%)	13 (8%)	11	39
2	D	161/188 (86%)	152 (94%)	9 (6%)	19	52
3	E	169/185 (91%)	148 (88%)	21 (12%)	4	21
3	G	165/185 (89%)	155 (94%)	10 (6%)	17	49
4	F	202/214 (94%)	183 (91%)	19 (9%)	8	33
4	H	203/214 (95%)	186 (92%)	17 (8%)	10	38
5	I	10/12 (83%)	10 (100%)	0	100	100
5	J	10/12 (83%)	10 (100%)	0	100	100
All	All	1411/1546 (91%)	1301 (92%)	110 (8%)	11	41

5 of 110 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	E	164	GLN
4	F	108	VAL
4	H	168	LEU
4	H	68	GLU
3	E	178	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 24 such sidechains are listed below:

Mol	Chain	Res	Type
4	F	214	ASN
3	G	159	GLN
3	G	44	GLN
3	G	164	GLN
2	D	134	ASN

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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 for Mogul analysis.

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	$\# Z > 2$
6	NAG	C	1001	1	14,14,15	0.32	0	17,19,21	0.70	1 (5%)
6	NAG	A	1001	1	14,14,15	0.30	0	17,19,21	0.63	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
6	NAG	C	1001	1	-	1/6/23/26	0/1/1/1
6	NAG	A	1001	1	-	0/6/23/26	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	C	1001	NAG	C1-O5-C5	2.55	115.60	112.19

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	C	1001	NAG	O5-C5-C6-O6

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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
3	E	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E	58:LYS	C	64:THR	N	1.10

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	181/191 (94%)	0.18	2 (1%) 78 61	26, 49, 75, 106	0
1	C	181/191 (94%)	0.09	2 (1%) 78 61	26, 44, 71, 108	0
2	B	180/213 (84%)	0.42	8 (4%) 39 24	27, 56, 101, 129	0
2	D	181/213 (84%)	0.41	7 (3%) 43 27	31, 54, 106, 134	0
3	E	199/207 (96%)	0.61	11 (5%) 30 19	33, 57, 93, 109	0
3	G	199/207 (96%)	0.48	11 (5%) 30 19	26, 55, 84, 93	0
4	F	243/244 (99%)	0.59	10 (4%) 41 25	32, 66, 91, 101	0
4	H	243/244 (99%)	0.47	5 (2%) 63 43	33, 63, 88, 103	0
5	I	11/13 (84%)	0.69	0 100 100	40, 44, 55, 58	0
5	J	11/13 (84%)	0.63	0 100 100	34, 42, 45, 45	0
All	All	1629/1736 (93%)	0.42	56 (3%) 48 30	26, 56, 92, 134	0

The worst 5 of 56 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	E	143	SER	6.7
3	E	197	SER	5.6
3	G	74	GLU	3.8
4	F	162	TYR	3.7
4	H	233	GLU	3.7

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 oligosaccharides 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, 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($\text{\AA}^2$)	Q<0.9
6	NAG	C	1001	14/15	0.85	0.12	58,62,67,70	0
6	NAG	A	1001	14/15	0.87	0.12	69,72,79,81	0
7	CA	B	301	1/1	0.98	0.04	30,30,30,30	0
7	CA	D	301	1/1	1.00	0.02	21,21,21,21	0

6.5 Other polymers [i](#)

There are no such residues in this entry.