



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 1, 2016 – 01:19 AM GMT

PDB ID : 2CNW
Title : GDPALF4 COMPLEX OF THE SRP GTPASES FFH AND FTSY
Authors : Focia, P.J.; Gawronski-Salerno, J.; Coon V, J.S.; Freymann, D.M.
Deposited on : 2006-05-24
Resolution : 2.39 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
<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

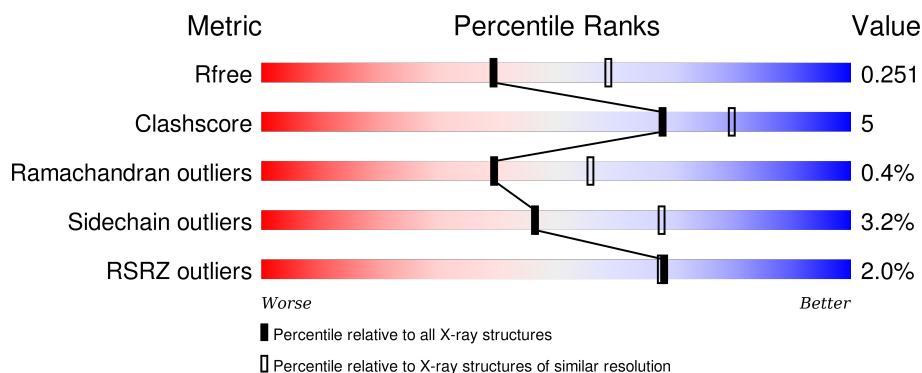
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.39 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.



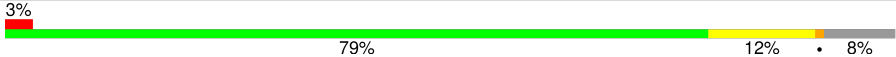
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	2919 (2.40-2.40)
Clashscore	102246	3407 (2.40-2.40)
Ramachandran outliers	100387	3351 (2.40-2.40)
Sidechain outliers	100360	3352 (2.40-2.40)
RSRZ outliers	91569	2928 (2.40-2.40)

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	294	
1	B	294	
1	C	294	
2	D	284	
2	E	284	

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Mol	Chain	Length	Quality of chain
2	F	284	 A horizontal bar chart showing the quality of chain F. The bar is divided into four segments: a small red segment at the beginning labeled '3%', a large green segment labeled '79%', a yellow segment labeled '12%', and a small grey segment at the end labeled '8%'.

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 13912 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.

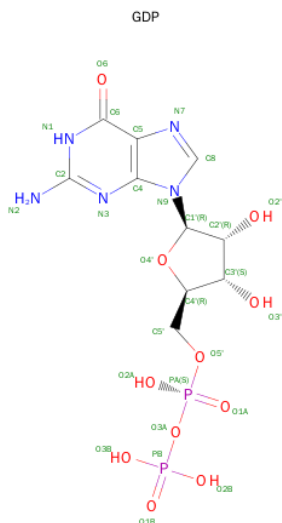
- Molecule 1 is a protein called SIGNAL RECOGNITION PARTICLE PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	290	Total	C	N	O	S	22	1	0
			2239	1405	409	421	4			
1	B	290	Total	C	N	O	S	0	1	0
			2241	1406	412	419	4			
1	C	290	Total	C	N	O	S	14	2	0
			2252	1412	416	420	4			

- Molecule 2 is a protein called CELL DIVISION PROTEIN FTSY.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	D	281	Total	C	N	O	S	3	4	0
			2175	1387	377	405	6			
2	E	279	Total	C	N	O	S	8	2	0
			2143	1366	372	399	6			
2	F	260	Total	C	N	O	S	4	0	0
			1965	1254	334	371	6			

- Molecule 3 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: C₁₀H₁₅N₅O₁₁P₂).

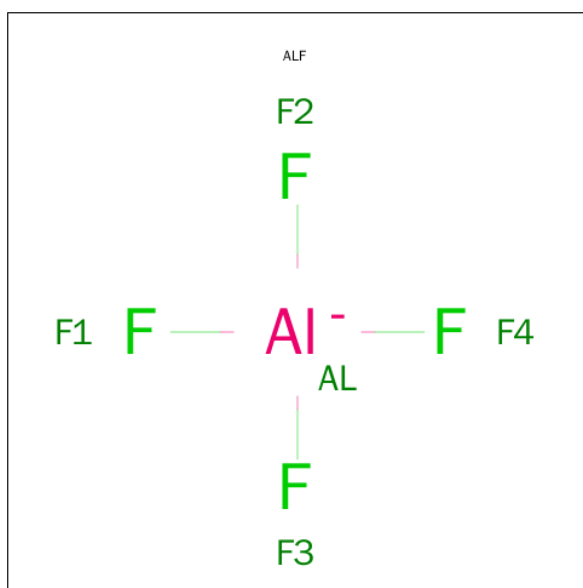


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total 28	C 10	N 5	O 11	P 2	0	0
3	B	1	Total 28	C 10	N 5	O 11	P 2	0	0
3	C	1	Total 28	C 10	N 5	O 11	P 2	0	0
3	D	1	Total 28	C 10	N 5	O 11	P 2	0	0
3	E	1	Total 28	C 10	N 5	O 11	P 2	0	0
3	F	1	Total 28	C 10	N 5	O 11	P 2	0	0

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

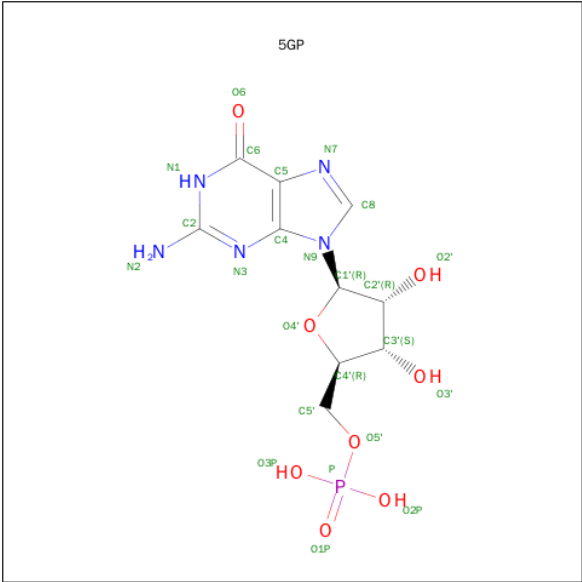
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	D	1	Total Mg 1 1	0	0
4	E	1	Total Mg 1 1	0	0
4	B	1	Total Mg 1 1	0	0
4	C	1	Total Mg 1 1	0	0
4	A	1	Total Mg 1 1	0	0
4	F	1	Total Mg 1 1	0	0

- Molecule 5 is TETRAFLUOROALUMINATE ION (three-letter code: ALF) (formula: AlF_4).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	Al	F	0	0
			5	1	4		
5	B	1	Total	Al	F	0	0
			5	1	4		
5	C	1	Total	Al	F	0	0
			5	1	4		
5	D	1	Total	Al	F	0	0
			5	1	4		
5	E	1	Total	Al	F	0	0
			5	1	4		
5	F	1	Total	Al	F	0	0
			5	1	4		

- Molecule 6 is GUANOSINE-5'-MONOPHOSPHATE (three-letter code: 5GP) (formula: $\text{C}_{10}\text{H}_{14}\text{N}_5\text{O}_8\text{P}$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
6	D	1	Total	C	N	O	P	0	0
			24	10	5	8	1		
6	E	1	Total	C	N	O	P	0	0
			24	10	5	8	1		
6	F	1	Total	C	N	O	P	0	0
			24	10	5	8	1		

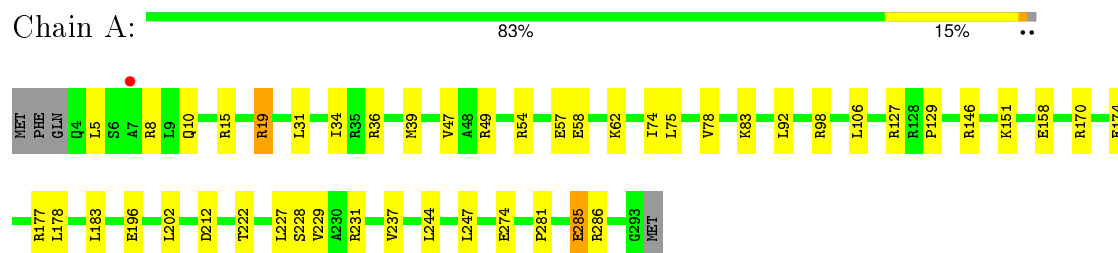
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	124	Total	O	0	0
			124	124		
7	B	104	Total	O	0	0
			104	104		
7	C	118	Total	O	0	0
			118	118		
7	D	104	Total	O	0	0
			104	104		
7	E	97	Total	O	0	0
			97	97		
7	F	74	Total	O	0	0
			74	74		

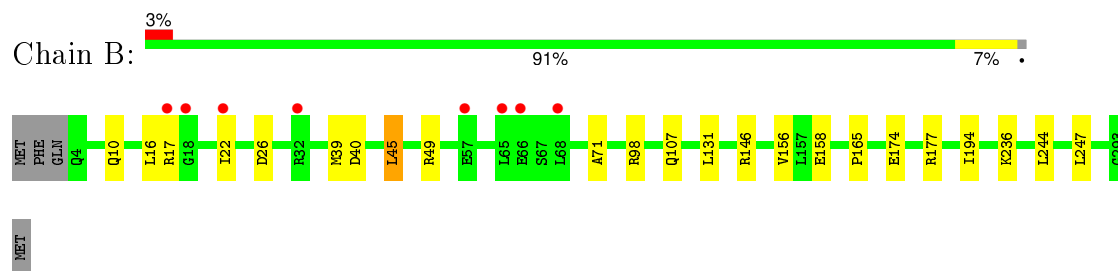
3 Residue-property plots [i](#)

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.

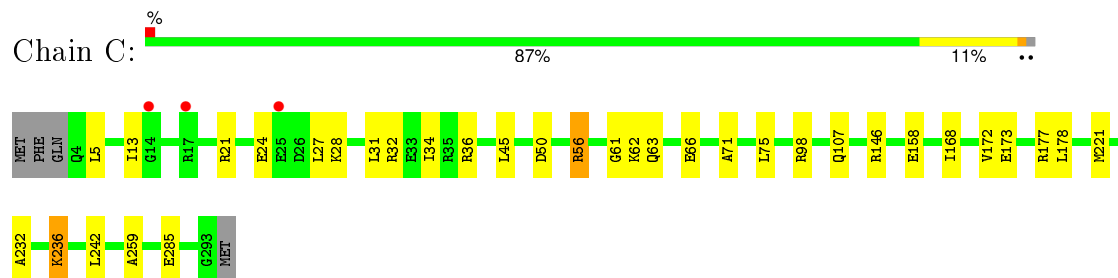
- Molecule 1: SIGNAL RECOGNITION PARTICLE PROTEIN



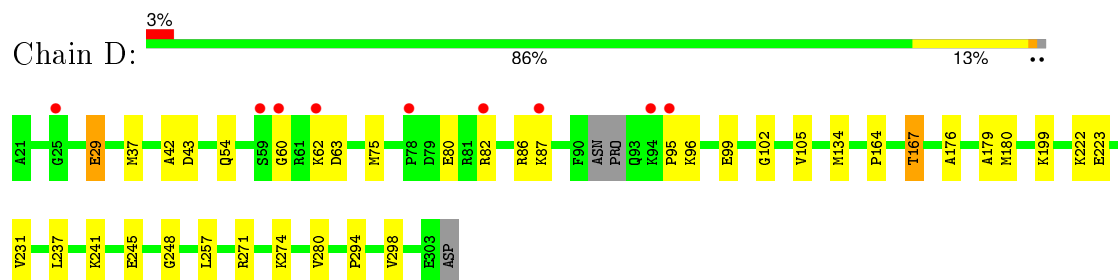
- Molecule 1: SIGNAL RECOGNITION PARTICLE PROTEIN



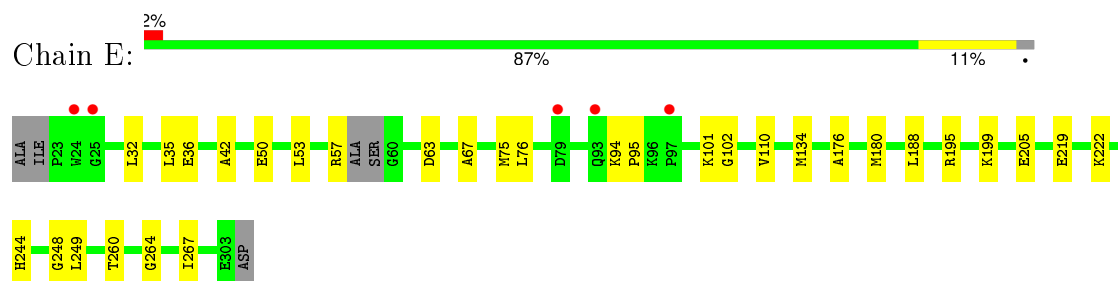
- Molecule 1: SIGNAL RECOGNITION PARTICLE PROTEIN



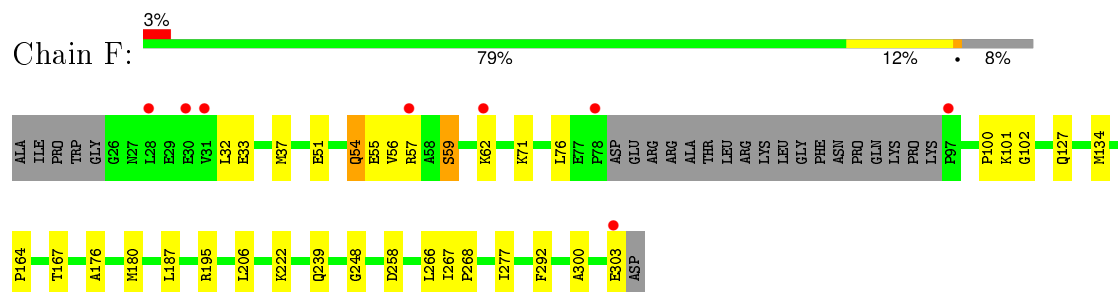
- Molecule 2: CELL DIVISION PROTEIN FTSY



● Molecule 2: CELL DIVISION PROTEIN FTSY



● Molecule 2: CELL DIVISION PROTEIN FTSY



4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	188.69 Å 188.69 Å 44.59 Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	14.68 – 2.39 14.68 – 2.39	Depositor EDS
% Data completeness (in resolution range)	100.0 (14.68-2.39) 100.0 (14.68-2.39)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.17 (at 2.39 Å)	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
R, R_{free}	0.183 , 0.253 0.183 , 0.251	Depositor DCC
R_{free} test set	3522 reflections (5.30%)	DCC
Wilson B-factor (Å ²)	28.8	Xtriage
Anisotropy	0.092	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 22.2	EDS
Estimated twinning fraction	0.037 for -h,-k,l 0.044 for h,-h-k,-l 0.130 for -k,-h,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Outliers	0 of 70000 reflections	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	13912	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 27.32 % of the origin peak, indicating pseudo translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo translational symmetry is equal to 2.2453e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹ Intensities estimated from amplitudes.

² Theoretical 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: GDP, ALF, MG, 5GP

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	0.51	0/2263	0.63	0/3050
1	B	0.48	0/2265	0.62	0/3052
1	C	0.47	0/2276	0.62	0/3066
2	D	0.52	0/2209	0.58	0/2982
2	E	0.47	0/2178	0.60	0/2941
2	F	0.49	0/1994	0.58	0/2693
All	All	0.49	0/13185	0.61	0/17784

There are no bond length outliers.

There are no bond angle outliers.

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	2239	0	2336	33	0
1	B	2241	0	2343	13	0
1	C	2252	0	2355	21	0
2	D	2175	0	2253	19	0
2	E	2143	0	2214	26	0
2	F	1965	0	2037	19	0
3	A	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	28	0	12	0	0
3	C	28	0	12	0	0
3	D	28	0	12	0	0
3	E	28	0	12	1	0
3	F	28	0	12	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
4	E	1	0	0	0	0
4	F	1	0	0	0	0
5	A	5	0	0	0	0
5	B	5	0	0	1	0
5	C	5	0	0	1	0
5	D	5	0	0	0	0
5	E	5	0	0	0	0
5	F	5	0	0	0	0
6	D	24	0	12	1	0
6	E	24	0	12	0	0
6	F	24	0	12	0	0
7	A	124	0	0	5	0
7	B	104	0	0	4	0
7	C	118	0	0	3	0
7	D	104	0	0	0	0
7	E	97	0	0	2	0
7	F	74	0	0	0	0
All	All	13912	0	13646	127	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 5.

The worst 5 of 127 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)
2:D:164:PRO:O	2:D:167:THR:HG22	1.54	1.07
1:C:177:ARG:NH2	1:C:178:LEU:HD23	1.88	0.89
1:A:19:ARG:HG2	1:A:19:ARG:HH11	1.39	0.88
1:A:170:ARG:HD2	7:A:2073:HOH:O	1.76	0.85
2:E:32:LEU:HD21	2:E:57:ARG:HB2	1.57	0.85

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	289/294 (98%)	283 (98%)	6 (2%)	0	100	100
1	B	289/294 (98%)	280 (97%)	9 (3%)	0	100	100
1	C	290/294 (99%)	281 (97%)	9 (3%)	0	100	100
2	D	281/284 (99%)	266 (95%)	11 (4%)	4 (1%)	14	19
2	E	277/284 (98%)	259 (94%)	17 (6%)	1 (0%)	39	56
2	F	256/284 (90%)	243 (95%)	11 (4%)	2 (1%)	24	35
All	All	1682/1734 (97%)	1612 (96%)	63 (4%)	7 (0%)	39	56

5 of 7 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	D	95	PRO
2	D	96	LYS
2	E	248	GLY
2	F	59	SER
2	D	60	GLY

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	230/233 (99%)	222 (96%)	8 (4%)	43	64
1	B	230/233 (99%)	224 (97%)	6 (3%)	54	74
1	C	231/233 (99%)	223 (96%)	8 (4%)	43	64

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	D	227/226 (100%)	215 (95%)	12 (5%)	28	44
2	E	224/226 (99%)	222 (99%)	2 (1%)	84	93
2	F	206/226 (91%)	198 (96%)	8 (4%)	39	59
All	All	1348/1377 (98%)	1304 (97%)	44 (3%)	46	66

5 of 44 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	98	ARG
2	D	54[B]	GLN
2	F	54	GLN
1	C	236	LYS
2	D	29	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	10	GLN
1	C	63	GLN
2	D	93	GLN

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 21 ligands modelled in this entry, 6 are monoatomic - leaving 15 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$
3	GDP	A	1001	5,4	23,30,30	1.30	3 (13%)	30,47,47	1.76	6 (20%)
5	ALF	A	1007	3,4,7	0,4,4	0.00	-	0,6,6	0.00	-
3	GDP	B	1001	5,4	23,30,30	1.18	2 (8%)	30,47,47	1.74	7 (23%)
5	ALF	B	1007	3,4,7	0,4,4	0.00	-	0,6,6	0.00	-
3	GDP	C	1001	5,4	23,30,30	1.33	2 (8%)	30,47,47	1.95	6 (20%)
5	ALF	C	1007	3,4,7	0,4,4	0.00	-	0,6,6	0.00	-
3	GDP	D	1001	5,4	23,30,30	1.16	2 (8%)	30,47,47	1.83	7 (23%)
5	ALF	D	1007	3,4,7	0,4,4	0.00	-	0,6,6	0.00	-
6	5GP	D	3001	-	21,26,26	1.37	3 (14%)	25,40,40	2.22	8 (32%)
3	GDP	E	1001	5,4	23,30,30	1.29	2 (8%)	30,47,47	2.14	8 (26%)
5	ALF	E	1007	3,4,7	0,4,4	0.00	-	0,6,6	0.00	-
6	5GP	E	3001	-	21,26,26	1.39	3 (14%)	25,40,40	2.21	9 (36%)
3	GDP	F	1001	5,4	23,30,30	1.20	2 (8%)	30,47,47	1.80	8 (26%)
5	ALF	F	1007	3,2,4,7	0,4,4	0.00	-	0,6,6	0.00	-
6	5GP	F	3001	-	21,26,26	1.47	3 (14%)	25,40,40	2.17	8 (32%)

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	GDP	A	1001	5,4	-	0/12/32/32	0/3/3/3
5	ALF	A	1007	3,4,7	-	0/0/0/0	0/0/0/0
3	GDP	B	1001	5,4	-	0/12/32/32	0/3/3/3
5	ALF	B	1007	3,4,7	-	0/0/0/0	0/0/0/0
3	GDP	C	1001	5,4	-	0/12/32/32	0/3/3/3
5	ALF	C	1007	3,4,7	-	0/0/0/0	0/0/0/0
3	GDP	D	1001	5,4	-	0/12/32/32	0/3/3/3
5	ALF	D	1007	3,4,7	-	0/0/0/0	0/0/0/0
6	5GP	D	3001	-	-	0/6/26/26	0/3/3/3
3	GDP	E	1001	5,4	-	0/12/32/32	0/3/3/3
5	ALF	E	1007	3,4,7	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	5GP	E	3001	-	-	0/6/26/26	0/3/3/3
3	GDP	F	1001	5,4	-	0/12/32/32	0/3/3/3
5	ALF	F	1007	3,2,4,7	-	0/0/0/0	0/0/0/0
6	5GP	F	3001	-	-	0/6/26/26	0/3/3/3

The worst 5 of 22 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1001	GDP	C6-N1	2.01	1.36	1.33
6	D	3001	5GP	O4'-C1'	2.02	1.43	1.41
6	F	3001	5GP	O4'-C1'	2.33	1.44	1.41
3	C	1001	GDP	C5-C4	2.46	1.46	1.40
3	D	1001	GDP	C5-C4	2.51	1.46	1.40

The worst 5 of 67 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	1001	GDP	C6-C5-C4	-5.23	114.65	120.90
6	F	3001	5GP	C5-C6-N1	-4.83	116.98	123.59
6	E	3001	5GP	C2'-C1'-N9	-4.67	107.16	114.29
6	E	3001	5GP	C5-C6-N1	-4.41	117.56	123.59
6	D	3001	5GP	C2'-C1'-N9	-4.39	107.58	114.29

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

4 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	1007	ALF	1	0
5	C	1007	ALF	1	0
6	D	3001	5GP	1	0
3	E	1001	GDP	1	0

5.7 Other polymers [i](#)

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	290/294 (98%)	-0.40	1 (0%) 94 94	13, 28, 57, 68	12 (4%)
1	B	290/294 (98%)	-0.29	8 (2%) 56 55	16, 30, 75, 85	9 (3%)
1	C	290/294 (98%)	-0.33	3 (1%) 84 83	17, 32, 57, 65	11 (3%)
2	D	281/284 (98%)	-0.24	9 (3%) 51 51	14, 29, 65, 71	4 (1%)
2	E	279/284 (98%)	-0.31	5 (1%) 71 71	16, 29, 69, 75	7 (2%)
2	F	260/284 (91%)	-0.24	8 (3%) 52 52	18, 32, 70, 77	4 (1%)
All	All	1690/1734 (97%)	-0.30	34 (2%) 68 68	13, 30, 67, 85	47 (2%)

The worst 5 of 34 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	E	24	TRP	5.2
2	D	94	LYS	4.8
1	B	68	LEU	4.7
2	E	25	GLY	4.7
2	E	97	PRO	4.7

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

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(Å ²)	Q<0.9
4	MG	D	1002	1/1	0.99	0.11	1.63	13,13,13,13	0
6	5GP	F	3001	24/24	0.94	0.13	1.15	33,36,51,52	0
5	ALF	D	1007	5/5	0.99	0.11	1.08	12,12,14,16	0
4	MG	F	1002	1/1	0.98	0.10	0.62	15,15,15,15	0
6	5GP	E	3001	24/24	0.92	0.13	0.53	33,36,48,48	0
5	ALF	F	1007	5/5	0.99	0.10	0.44	15,15,16,16	0
5	ALF	E	1007	5/5	0.99	0.09	0.22	11,14,15,16	0
3	GDP	F	1001	28/28	0.99	0.10	0.02	12,17,18,19	0
6	5GP	D	3001	24/24	0.95	0.10	-0.01	39,41,49,49	0
3	GDP	D	1001	28/28	0.99	0.09	-0.07	9,16,17,18	0
3	GDP	B	1001	28/28	0.99	0.08	-0.23	13,16,17,17	0
5	ALF	C	1007	5/5	0.97	0.09	-0.27	18,18,20,22	0
3	GDP	A	1001	28/28	0.99	0.09	-0.43	8,10,11,12	0
3	GDP	C	1001	28/28	0.99	0.08	-0.87	10,14,16,18	0
5	ALF	B	1007	5/5	0.99	0.07	-1.00	18,19,19,20	0
4	MG	E	1002	1/1	0.99	0.07	-1.21	15,15,15,15	0
5	ALF	A	1007	5/5	0.99	0.08	-1.28	13,16,17,18	0
3	GDP	E	1001	28/28	0.99	0.07	-1.63	10,18,19,19	0
4	MG	B	1002	1/1	0.98	0.06	-1.85	17,17,17,17	0
4	MG	C	1002	1/1	0.97	0.06	-2.44	18,18,18,18	0
4	MG	A	1002	1/1	0.99	0.05	-	12,12,12,12	0

6.5 Other polymers

There are no such residues in this entry.