W O R L D W I D E

wwPDB

P R O T E I N   D A T A   B A N K

wwPDB X-ray Structure Validation Summary Report (i)

May 24, 2020 – 07:06 am BST

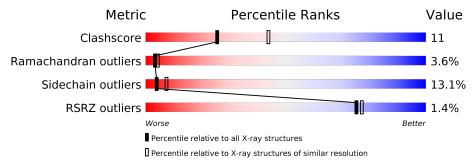|		
PDB ID	:	1IGJ
Title	:	26-10 FAB:DIGOXIN COMPLEX-AFFINITY AND SPECIFICITY DUE TO SURFACE COMPLEMENTARITY
Authors	:	Jeffrey, P.D.; Sheriff, S.
Deposited on	:	1993-02-19
Resolution	:	2.50 Å(reported)

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 2.50 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	Percentile Ranks	Value
Clashscore		11
Ramachandran outliers		3.6%
Sidechain outliers		13.1%
RSRZ outliers		1.4%

Worse ◼ *Better*

◼ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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 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 <=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	219	59% 34% 5% ·
1	C	219	65% 28% 5% ··
2	B	218	3% · 58% 33% 8%
2	D	218	2% · 55% 36% 7% ·

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 6650 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 IGG2A-KAPPA 26-10 FAB (LIGHT CHAIN).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	216	Total	C	N	O	S	0	0	0
			1666	1040	284	336	6			
1	C	216	Total	C	N	O	S	0	0	0
			1666	1040	284	336	6			

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	7	THR	SER	CONFLICT	PIR S52028
A	27B	LEU	ILE	CONFLICT	PIR S52028
A	34	ASN	GLU	CONFLICT	PIR S52028
A	40	ALA	PRO	CONFLICT	PIR S52028
A	85	ILE	VAL	CONFLICT	PIR S52028
A	87	PHE	TYR	CONFLICT	PIR S52028
A	89	SER	PHE	CONFLICT	PIR S52028
A	91	THR	GLY	CONFLICT	PIR S52028
A	92	THR	SER	CONFLICT	PIR S52028
A	103	LYS	ASN	CONFLICT	PIR S52028
C	7	THR	SER	CONFLICT	PIR S52028
C	27B	LEU	ILE	CONFLICT	PIR S52028
C	34	ASN	GLU	CONFLICT	PIR S52028
C	40	ALA	PRO	CONFLICT	PIR S52028
C	85	ILE	VAL	CONFLICT	PIR S52028
C	87	PHE	TYR	CONFLICT	PIR S52028
C	89	SER	PHE	CONFLICT	PIR S52028
C	91	THR	GLY	CONFLICT	PIR S52028
C	92	THR	SER	CONFLICT	PIR S52028
C	103	LYS	ASN	CONFLICT	PIR S52028

- Molecule 2 is a protein called IGG2A-KAPPA 26-10 FAB (HEAVY CHAIN).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	217	Total	C	N	O	S	0	0	0
			1622	1024	264	325	9			
2	D	217	Total	C	N	O	S	0	0	0
			1622	1024	264	325	9			

There are 64 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	13	LYS	ARG	CONFLICT	PIR S38950
B	19	ARG	LYS	CONFLICT	PIR S38950
B	20	MET	ILE	CONFLICT	PIR S38950
B	24	SER	ALA	CONFLICT	PIR S38950
B	28	ILE	THR	CONFLICT	PIR S38950
B	32	PHE	TYR	CONFLICT	PIR S38950
B	34	MET	ILE	CONFLICT	PIR S38950
B	35	ASN	HIS	CONFLICT	PIR S38950
B	38	ARG	LYS	CONFLICT	PIR S38950
B	40	SER	ARG	CONFLICT	PIR S38950
B	41	HIS	PRO	CONFLICT	PIR S38950
B	43	LYS	GLU	CONFLICT	PIR S38950
B	44	SER	GLY	CONFLICT	PIR S38950
B	46	ASP	GLU	CONFLICT	PIR S38950
B	47	TYR	TRP	CONFLICT	PIR S38950
B	50	TYR	TRP	CONFLICT	PIR S38950
B	52	SER	TYR	CONFLICT	PIR S38950
B	53	TYR	GLY	CONFLICT	PIR S38950
B	56	VAL	ASN	CONFLICT	PIR S38950
B	58	GLY	LYS	CONFLICT	PIR S38950
B	61	GLN	GLU	CONFLICT	PIR S38950
B	73	LYS	THR	CONFLICT	PIR S38950
B	81	GLU	GLN	CONFLICT	PIR S38950
B	82A	ARG	SER	CONFLICT	PIR S38950
B	91	TYR	PHE	CONFLICT	PIR S38950
B	94	GLY	-	INSERTION	PIR S38950
B	95	SER	-	INSERTION	PIR S38950
B	96	SER	ARG	CONFLICT	PIR S38950
B	98	ASN	GLY	CONFLICT	PIR S38950
B	100	TRP	PHE	CONFLICT	PIR S38950
B	105	HIS	GLN	CONFLICT	PIR S38950
B	107	ALA	THR	CONFLICT	PIR S38950
D	13	LYS	ARG	CONFLICT	PIR S38950
D	19	ARG	LYS	CONFLICT	PIR S38950
D	20	MET	ILE	CONFLICT	PIR S38950

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Chain	Residue	Modelled	Actual	Comment	Reference
D	24	SER	ALA	CONFLICT	PIR S38950
D	28	ILE	THR	CONFLICT	PIR S38950
D	32	PHE	TYR	CONFLICT	PIR S38950
D	34	MET	ILE	CONFLICT	PIR S38950
D	35	ASN	HIS	CONFLICT	PIR S38950
D	38	ARG	LYS	CONFLICT	PIR S38950
D	40	SER	ARG	CONFLICT	PIR S38950
D	41	HIS	PRO	CONFLICT	PIR S38950
D	43	LYS	GLU	CONFLICT	PIR S38950
D	44	SER	GLY	CONFLICT	PIR S38950
D	46	ASP	GLU	CONFLICT	PIR S38950
D	47	TYR	TRP	CONFLICT	PIR S38950
D	50	TYR	TRP	CONFLICT	PIR S38950
D	52	SER	TYR	CONFLICT	PIR S38950
D	53	TYR	GLY	CONFLICT	PIR S38950
D	56	VAL	ASN	CONFLICT	PIR S38950
D	58	GLY	LYS	CONFLICT	PIR S38950
D	61	GLN	GLU	CONFLICT	PIR S38950
D	73	LYS	THR	CONFLICT	PIR S38950
D	81	GLU	GLN	CONFLICT	PIR S38950
D	82A	ARG	SER	CONFLICT	PIR S38950
D	91	TYR	PHE	CONFLICT	PIR S38950
D	94	GLY	-	INSERTION	PIR S38950
D	95	SER	-	INSERTION	PIR S38950
D	96	SER	ARG	CONFLICT	PIR S38950
D	98	ASN	GLY	CONFLICT	PIR S38950
D	100	TRP	PHE	CONFLICT	PIR S38950
D	105	HIS	GLN	CONFLICT	PIR S38950
D	107	ALA	THR	CONFLICT	PIR S38950

- Molecule 3 is DIGOXIN (three-letter code: DGX) (formula: $C_{41}H_{64}O_{14}$).
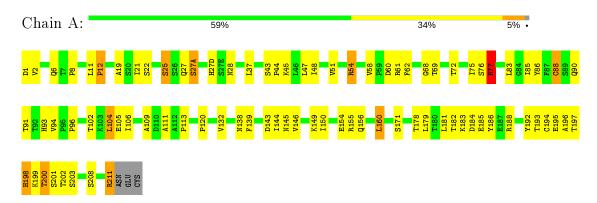
DGX

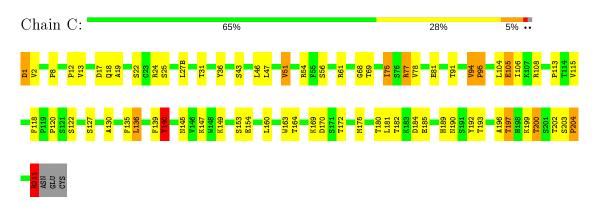| Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	C	O	0	0
			37	29	8		
3	D	1	Total	C	O	0	0
			37	29	8		

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 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.
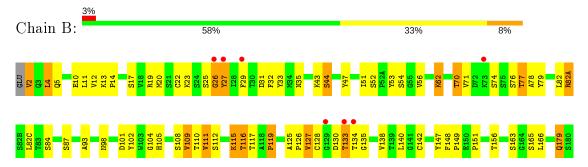
- Molecule 1: IGG2A-KAPPA 26-10 FAB (LIGHT CHAIN)

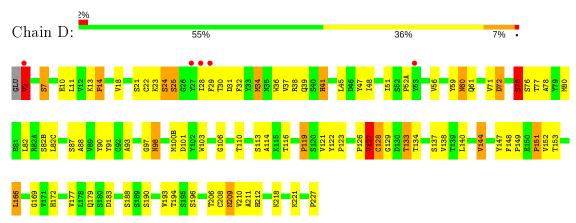- Molecule 1: IGG2A-KAPPA 26-10 FAB (LIGHT CHAIN)

- Molecule 2: IGG2A-KAPPA 26-10 FAB (HEAVY CHAIN)

D183 L184 Y185 T186 L187 Q203 C208 N209 V210 A211 H212 S215 S216 T217 K218 V219 D220 P227

● Molecule 2: IGG2A-KAPPA 26-10 FAB (HEAVY CHAIN)

Chain D:

2%

55%   36%   7%

GLU V2 S7 E10 L11 V12 K13 P14 V18 S21 C22 K23 S24 S25 G26 Y27 I28 F29 T30 D31 F32 Y33 M34 N35 W36 V37 R38 Q39 S40 H41 L45 D46 Y47 I48 I51 S52 P52A Y53 V56 Y59 N60 Q61 V71 D72 S75 S76 T77 A78 Y79 M80

E81 L82 R82A S82B L82C S87 A88 V89 Y90 Y91 C92 A93 G97 N98 M100B D101 Y102 W103 G106 T110 S113 A114 K115 T116 P119 S120 V121 Y122 P123 P126 V127 G128 G129 D130 T133 T134 S137 V138 T139 L140 V144 Y147 F148 P149 E150 P151 V152 T153

L166 G169 V171 H172 V177 L178 Q179 S180 D183 S188 S189 S190 V193 T194 S195 S196 T206 C208 N209 V210 A211 H212 K218 K221 P227

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	44.16Å 164.43Å 70.01Å 90.00° 108.37° 90.00°	Depositor
Resolution (Å)	8.00 – 2.50 51.68 – 2.42	Depositor EDS
% Data completeness (in resolution range)	(Not available) (8.00-2.50) 75.4 (51.68-2.42)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.82 (at 2.42Å)	Xtriage
Refinement program	X-PLOR	Depositor
R, R_{free}	0.176 , (Not available) 0.171 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å^2)	29.7	Xtriage
Anisotropy	0.374	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 36.1	EDS
L-test for twinning[2]	$< |L| > = 0.41, < L^2 > = 0.23$	Xtriage
Estimated twinning fraction	0.477 for h,-k,-h-l	Xtriage
F_o,F_c correlation	0.94	EDS
Total number of atoms	6650	wwPDB-VP
Average B, all atoms (Å^2)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.07% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 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: DGX

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	0.65	0/1703	1.47	9/2312 (0.4%)
1	C	0.65	0/1703	1.57	20/2312 (0.9%)
2	B	0.67	0/1664	1.58	22/2268 (1.0%)
2	D	0.65	0/1664	1.56	15/2268 (0.7%)
All	All	0.65	0/6734	1.55	66/9160 (0.7%)

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	C	0	1

There are no bond length outliers.

The worst 5 of 66 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	211	ARG	NE-CZ-NH1	10.76	125.68	120.30
1	A	88	CYS	CA-CB-SG	8.93	130.07	114.00
1	A	211	ARG	NE-CZ-NH1	8.73	124.66	120.30
1	C	190	ASN	CA-C-N	7.30	133.27	117.20
1	C	2	VAL	N-CA-C	-6.96	92.21	111.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	140	TYR	Sidechain

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	1666	0	1617	40	0
1	C	1666	0	1617	27	0
2	B	1622	0	1566	35	0
2	D	1622	0	1566	43	0
3	B	37	0	43	0	0
3	D	37	0	43	0	0
All	All	6650	0	6452	139	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 11.

The worst 5 of 139 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

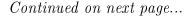| Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:119:PRO:HB3	2:B:147:TYR:HB3	1.52	0.89
1:A:150:ILE:HD11	1:A:179:LEU:HD21	1.56	0.84
1:A:150:ILE:HD12	1:A:155:ARG:HD3	1.64	0.78
2:B:82:LEU:HB3	2:B:82(C):LEU:HD21	1.67	0.76
2:D:119:PRO:HB2	2:D:144:VAL:HG12	1.68	0.74

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	214/219 (98%)	187 (87%)	21 (10%)	6 (3%)	5 7

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	214/219 (98%)	196 (92%)	14 (6%)	4 (2%)	8	13
2	B	215/218 (99%)	176 (82%)	29 (14%)	10 (5%)	2	2
2	D	215/218 (99%)	187 (87%)	17 (8%)	11 (5%)	2	2
All	All	858/874 (98%)	746 (87%)	81 (9%)	31 (4%)	3	4

5 of 31 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	51	VAL
1	A	171	SER
1	A	200	THR
2	B	62	LYS
2	B	116	THR

5.3.2 Protein sidechains (i)

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	193/196 (98%)	170 (88%)	23 (12%)	5	10
1	C	193/196 (98%)	169 (88%)	24 (12%)	4	9
2	B	184/187 (98%)	156 (85%)	28 (15%)	3	5
2	D	184/187 (98%)	160 (87%)	24 (13%)	4	7
All	All	754/766 (98%)	655 (87%)	99 (13%)	4	7

5 of 99 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B	179	GLN
1	C	51	VAL
2	D	151	PRO
2	B	203	GLN
2	B	220	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 7 such sidechains are listed below:

Mol	Chain	Res	Type
2	B	203	GLN
2	D	35	ASN
2	B	209	ASN
1	A	53	ASN
1	C	18	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)

2 ligands 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	DGX	B	228	-	42,42,62	0.91	2 (4%)	63,68,98	1.41	10 (15%)
3	DGX	D	228	-	42,42,62	0.63	0	63,68,98	1.26	4 (6%)

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	DGX	B	228	-	-	2/8/101/141	0/6/6/8
3	DGX	D	228	-	-	2/8/101/141	0/6/6/8

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	228	DGX	C14-C8	3.27	1.58	1.54
3	B	228	DGX	O14-C14	2.37	1.47	1.44

The worst 5 of 14 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	B	228	DGX	C19-C10-C1	-4.66	100.75	108.26
3	D	228	DGX	C19-C10-C1	-4.33	101.29	108.26
3	D	228	DGX	C9-C11-C12	-3.71	109.41	114.30
3	B	228	DGX	C11-C9-C10	-3.28	110.35	113.73
3	B	228	DGX	C10-C9-C8	3.27	116.81	112.00

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	228	DGX	C2X-C1X-O3-C3
3	D	228	DGX	C2X-C1X-O3-C3
3	B	228	DGX	O5X-C1X-O3-C3
3	D	228	DGX	O5X-C1X-O3-C3

There are no ring outliers.

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

Ligand DGX B 228

Bond lengths

Bond angles

Torsions

Rings

Ligand DGX D 228

Bond lengths

Bond angles

Torsions

Rings

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(Å²)	Q<0.9
1	A	216/219 (98%)	-0.59	0	100	100	2, 17, 30, 38	0
1	C	216/219 (98%)	-0.61	0	100	100	2, 17, 35, 64	0
2	B	217/218 (99%)	-0.24	7 (3%)	47	51	3, 24, 51, 60	0
2	D	217/218 (99%)	-0.34	5 (2%)	60	63	3, 21, 47, 62	0
All	All	866/874 (99%)	-0.45	12 (1%)	75	77	2, 20, 42, 64	0

The worst 5 of 12 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	27	TYR	6.6
2	D	27	TYR	6.4
2	B	29	PHE	5.2
2	B	134	THR	4.6
2	B	129	GLY	4.5

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)

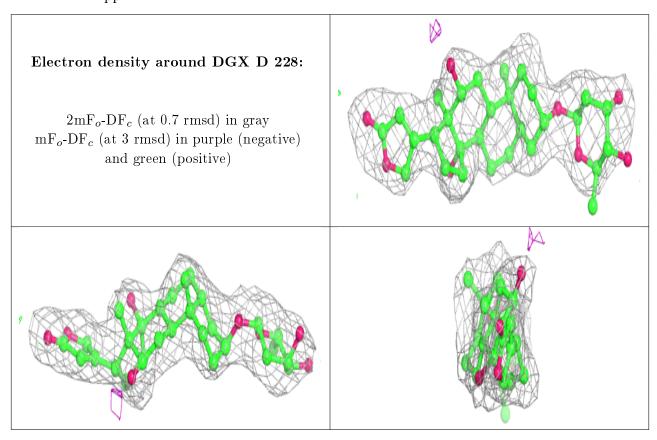There are no carbohydrates in this entry.

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. 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.
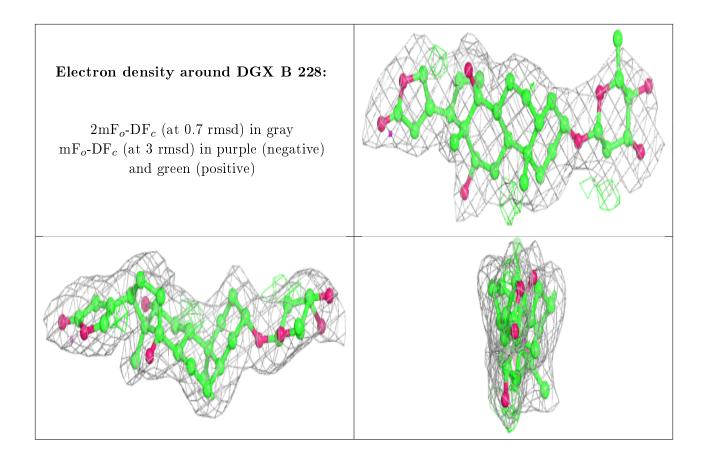
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($Å^2$)	Q<0.9
3	DGX	D	228	37/55	0.89	0.14	27,38,54,55	0
3	DGX	B	228	37/55	0.91	0.14	8,20,48,51	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around DGX D 228:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)

Electron density around DGX B 228:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

6.5 Other polymers ⓘ

There are no such residues in this entry.