



# Full wwPDB X-ray Structure Validation Report ⓘ

Nov 15, 2017 – 01:11 PM EST

PDB ID : 5E6D  
Title : Glucocorticoid receptor DNA binding domain - ICAM1 NF-kB response element complex  
Authors : Hudson, W.H.; Rye, E.A.; Herbst, A.G.; Ortlund, E.A.  
Deposited on : unknown  
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](mailto: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.

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

MolProbity : 4.02b-467  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20030345  
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)  
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) : rb-20030345

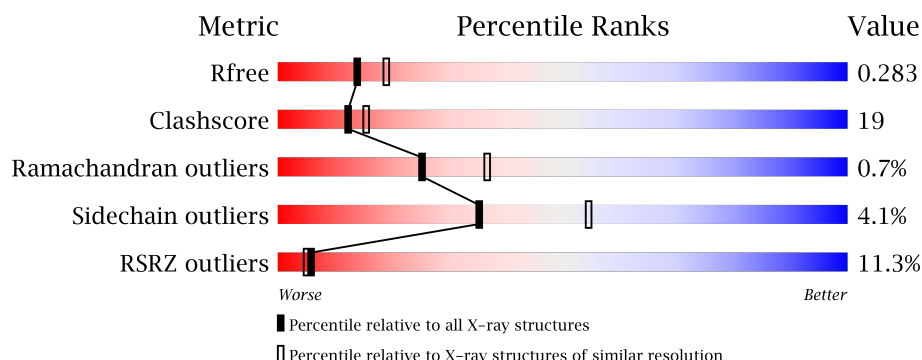
# 1 Overall quality at a glance

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))
$R_{free}$	100719	3166 (2.40-2.40)
Clashscore	112137	3674 (2.40-2.40)
Ramachandran outliers	110173	3616 (2.40-2.40)
Sidechain outliers	110143	3617 (2.40-2.40)
RSRZ outliers	101464	3195 (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  $\geq 3$ , 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	C	16	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 0%, red 75%, yellow 75%, yellow 100%);"></div> <div style="display: flex; justify-content: space-between; width: 100%;"> <span>75%</span> <span>25%</span> </div> </div>
2	D	16	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 0%, red 19%, green 19%, green 38%, yellow 38%, yellow 63%, yellow 100%);"></div> <div style="display: flex; justify-content: space-between; width: 100%;"> <span>19%</span> <span>38%</span> <span>63%</span> </div> </div>
3	A	114	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 0%, red 5%, green 5%, green 42%, yellow 42%, yellow 21%, grey 21%, grey 36%, grey 100%);"></div> <div style="display: flex; justify-content: space-between; width: 100%;"> <span>5%</span> <span>42%</span> <span>21%</span> <span>36%</span> </div> </div>
3	B	114	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 0%, red 10%, green 10%, green 42%, yellow 42%, yellow 17%, orange 17%, orange 18%, grey 18%, grey 37%, grey 100%);"></div> <div style="display: flex; justify-content: space-between; width: 100%;"> <span>10%</span> <span>42%</span> <span>17%</span> <span>37%</span> </div> </div>

## 2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 1786 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 DNA chain called DNA (5'-D(\*GP\*CP\*TP\*CP\*CP\*GP\*GP\*AP\*AP\*TP\*TP\*TP\*CP\*CP\*AP\*A)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	C	16	Total	C	N	O	P	0	0	0
			322	155	58	94	15			

- Molecule 2 is a DNA chain called DNA (5'-D(\*TP\*TP\*GP\*GP\*AP\*AP\*AP\*TP\*TP\*CP\*CP\*GP\*GP\*AP\*GP\*C)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	D	16	Total	C	N	O	P	0	0	0
			328	157	62	94	15			

- Molecule 3 is a protein called Glucocorticoid receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	A	73	Total	C	N	O	S	0	0	0
			560	344	107	98	11			
3	B	72	Total	C	N	O	S	0	0	0
			553	339	106	97	11			

There are 48 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	393	MET	-	initiating methionine	UNP P04150
A	394	HIS	-	expression tag	UNP P04150
A	395	HIS	-	expression tag	UNP P04150
A	396	HIS	-	expression tag	UNP P04150
A	397	HIS	-	expression tag	UNP P04150
A	398	HIS	-	expression tag	UNP P04150
A	399	HIS	-	expression tag	UNP P04150
A	400	SER	-	expression tag	UNP P04150
A	401	SER	-	expression tag	UNP P04150
A	402	GLY	-	expression tag	UNP P04150

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Chain	Residue	Modelled	Actual	Comment	Reference
A	403	VAL	-	expression tag	UNP P04150
A	404	ASP	-	expression tag	UNP P04150
A	405	LEU	-	expression tag	UNP P04150
A	406	GLY	-	expression tag	UNP P04150
A	407	THR	-	expression tag	UNP P04150
A	408	GLU	-	expression tag	UNP P04150
A	409	ASN	-	expression tag	UNP P04150
A	410	LEU	-	expression tag	UNP P04150
A	411	TYR	-	expression tag	UNP P04150
A	412	PHE	-	expression tag	UNP P04150
A	413	GLN	-	expression tag	UNP P04150
A	414	SER	-	expression tag	UNP P04150
A	415	ASN	-	expression tag	UNP P04150
A	416	ALA	-	expression tag	UNP P04150
B	393	MET	-	initiating methionine	UNP P04150
B	394	HIS	-	expression tag	UNP P04150
B	395	HIS	-	expression tag	UNP P04150
B	396	HIS	-	expression tag	UNP P04150
B	397	HIS	-	expression tag	UNP P04150
B	398	HIS	-	expression tag	UNP P04150
B	399	HIS	-	expression tag	UNP P04150
B	400	SER	-	expression tag	UNP P04150
B	401	SER	-	expression tag	UNP P04150
B	402	GLY	-	expression tag	UNP P04150
B	403	VAL	-	expression tag	UNP P04150
B	404	ASP	-	expression tag	UNP P04150
B	405	LEU	-	expression tag	UNP P04150
B	406	GLY	-	expression tag	UNP P04150
B	407	THR	-	expression tag	UNP P04150
B	408	GLU	-	expression tag	UNP P04150
B	409	ASN	-	expression tag	UNP P04150
B	410	LEU	-	expression tag	UNP P04150
B	411	TYR	-	expression tag	UNP P04150
B	412	PHE	-	expression tag	UNP P04150
B	413	GLN	-	expression tag	UNP P04150
B	414	SER	-	expression tag	UNP P04150
B	415	ASN	-	expression tag	UNP P04150
B	416	ALA	-	expression tag	UNP P04150

- Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	2	Total 2	Zn 2	0	0
4	A	2	Total 2	Zn 2	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	D	1	Total 1	O 1	0	0
5	A	9	Total 9	O 9	0	0
5	B	9	Total 9	O 9	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 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.

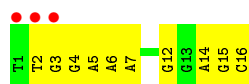
- Molecule 1: DNA (5'-D(\*GP\*CP\*TP\*CP\*CP\*GP\*GP\*AP\*AP\*TP\*TP\*TP\*CP\*CP\*AP\*A)-3')

Chain C: 



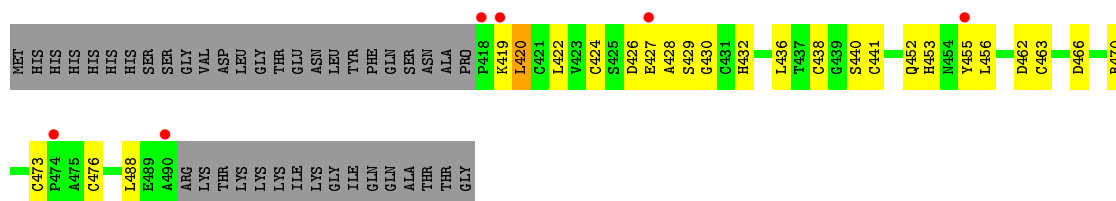
- Molecule 2: DNA (5'-D(\*TP\*TP\*GP\*GP\*AP\*AP\*AP\*TP\*TP\*CP\*CP\*GP\*GP\*AP\*GP\*C)-3')

Chain D: 

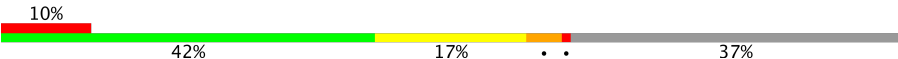


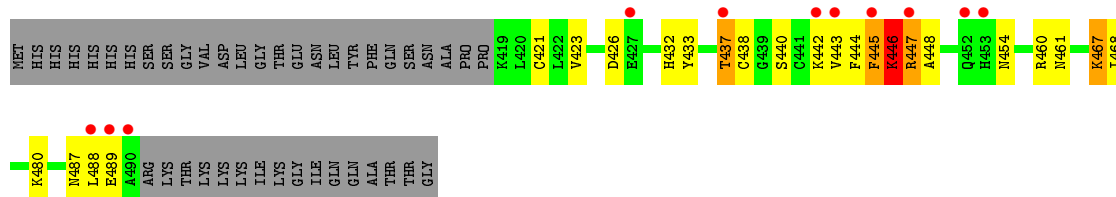
- Molecule 3: Glucocorticoid receptor

Chain A: 



- Molecule 3: Glucocorticoid receptor

Chain B: 



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	39.06 Å 97.14 Å 104.02 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	32.66 – 2.40 32.66 – 2.40	Depositor EDS
% Data completeness (in resolution range)	97.7 (32.66-2.40) 97.7 (32.66-2.40)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	6.49 (at 2.39 Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
R, $R_{free}$	0.257 , 0.283 0.257 , 0.283	Depositor DCC
$R_{free}$ test set	788 reflections (5.00%)	DCC
Wilson B-factor (Å <sup>2</sup> )	62.0	Xtriage
Anisotropy	0.279	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.31 , 68.2	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.92	EDS
Total number of atoms	1786	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	96.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.00% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: ZN

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	C	0.56	0/360	0.95	0/553
2	D	0.56	0/368	1.01	1/567 (0.2%)
3	A	0.30	0/568	0.56	0/758
3	B	0.55	0/560	0.77	2/747 (0.3%)
All	All	0.49	0/1856	0.82	3/2625 (0.1%)

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
3	B	0	1

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	12	DG	O5'-P-OP2	-6.74	99.63	105.70
3	B	446	LYS	CB-CG-CD	-6.35	95.09	111.60
3	B	446	LYS	CD-CE-NZ	-5.15	99.86	111.70

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	B	445	PHE	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	C	322	0	182	3	0
2	D	328	0	182	8	0
3	A	560	0	555	21	0
3	B	553	0	547	30	0
4	A	2	0	0	0	0
4	B	2	0	0	0	0
5	A	9	0	0	2	0
5	B	9	0	0	1	0
5	D	1	0	0	0	0
All	All	1786	0	1466	58	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 19.

All (58) 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)
3:B:442:LYS:C	3:B:446:LYS:HD3	2.02	0.79
3:A:473:CYS:SG	5:A:706:HOH:O	2.44	0.75
3:A:419:LYS:O	3:A:428:ALA:N	2.16	0.74
3:B:432:HIS:HB2	3:B:442:LYS:CD	2.18	0.73
3:A:426:ASP:OD1	3:A:427:GLU:N	2.23	0.71
3:B:438:CYS:O	3:B:442:LYS:HG3	1.91	0.70
3:B:433:TYR:CE2	3:B:446:LYS:NZ	2.60	0.69
3:A:424:CYS:HB3	3:A:441:CYS:SG	2.32	0.68
3:B:445:PHE:N	3:B:446:LYS:HD2	2.12	0.64
3:B:445:PHE:N	3:B:446:LYS:HB2	2.13	0.63
3:B:446:LYS:O	3:B:447:ARG:HB3	1.98	0.63
3:A:452:GLN:N	3:A:452:GLN:OE1	2.33	0.62
3:A:438:CYS:SG	3:A:440:SER:OG	2.55	0.61
3:B:432:HIS:HB2	3:B:442:LYS:HD2	1.81	0.60
3:A:453:HIS:HB2	5:A:704:HOH:O	2.02	0.60
2:D:14:DA:H2"	2:D:15:DG:H5"	1.84	0.59
3:B:421:CYS:SG	3:B:437:THR:HB	2.42	0.58
3:B:445:PHE:H	3:B:446:LYS:HD2	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:453:HIS:O	3:A:455:TYR:N	2.38	0.57
3:B:445:PHE:HB3	3:B:446:LYS:HE2	1.87	0.57
3:B:421:CYS:HA	3:B:437:THR:HA	1.87	0.57
3:A:462:ASP:OD2	3:B:460:ARG:NH2	2.37	0.56
3:B:432:HIS:HB2	3:B:442:LYS:HD3	1.89	0.55
3:B:445:PHE:HB3	3:B:446:LYS:CE	2.37	0.55
2:D:15:DG:H2''	2:D:16:DC:H5'	1.89	0.54
3:B:488:LEU:O	3:B:489:GLU:HG3	2.07	0.54
3:B:440:SER:HA	3:B:443:VAL:HG12	1.90	0.54
3:B:480:LYS:O	5:B:701:HOH:O	2.18	0.53
3:B:437:THR:HG23	3:B:442:LYS:HE3	1.90	0.53
1:C:7:DG:H2''	1:C:8:DA:C8	2.44	0.52
3:A:453:HIS:N	3:A:453:HIS:CD2	2.79	0.51
3:A:430:GLY:O	3:A:432:HIS:ND1	2.44	0.51
3:B:445:PHE:O	3:B:448:ALA:HB3	2.11	0.50
3:A:422:LEU:HD13	3:A:436:LEU:HB3	1.95	0.49
3:B:460:ARG:O	3:B:461:ASN:HB2	2.11	0.49
3:A:420:LEU:HD22	3:A:427:GLU:HA	1.94	0.48
3:B:444:PHE:C	3:B:446:LYS:HB2	2.34	0.48
3:B:437:THR:OG1	3:B:438:CYS:N	2.46	0.46
2:D:7:DA:OP1	3:A:470:ARG:NE	2.37	0.46
3:B:454:ASN:OD1	3:B:454:ASN:N	2.46	0.46
2:D:5:DA:H2''	2:D:6:DA:H8	1.81	0.45
3:A:456:LEU:HD12	3:B:468:ILE:HD11	2.00	0.44
3:A:424:CYS:O	3:A:466:ASP:HA	2.16	0.44
3:B:426:ASP:CG	3:B:467:LYS:HD3	2.37	0.44
2:D:2:DT:H2''	2:D:3:DG:OP2	2.18	0.44
3:A:466:ASP:O	3:A:470:ARG:N	2.50	0.43
3:B:432:HIS:CG	3:B:442:LYS:HD2	2.54	0.43
3:A:429:SER:HB3	3:A:432:HIS:HE1	1.84	0.42
3:A:488:LEU:HA	3:A:488:LEU:HD23	1.84	0.42
3:B:443:VAL:HG22	3:B:447:ARG:NH2	2.35	0.42
1:C:14:DC:H42	2:D:3:DG:H1	1.68	0.42
3:A:453:HIS:C	3:A:455:TYR:H	2.22	0.42
3:B:423:VAL:HA	3:B:480:LYS:HE2	2.01	0.41
2:D:5:DA:H2''	2:D:6:DA:C8	2.55	0.41
3:A:463:CYS:HB2	3:A:476:CYS:SG	2.61	0.40
3:B:487:ASN:OD1	3:B:488:LEU:N	2.54	0.40
2:D:4:DG:H2''	2:D:5:DA:C8	2.56	0.40
1:C:14:DC:H2''	1:C:15:DA:C8	2.56	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	
3	A	71/114 (62%)	69 (97%)	2 (3%)	0	100	100
3	B	70/114 (61%)	61 (87%)	8 (11%)	1 (1%)	13	18
All	All	141/228 (62%)	130 (92%)	10 (7%)	1 (1%)	25	37

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	B	446	LYS

### 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	
3	A	61/96 (64%)	60 (98%)	1 (2%)	68	83
3	B	60/96 (62%)	56 (93%)	4 (7%)	19	30
All	All	121/192 (63%)	116 (96%)	5 (4%)	35	54

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	A	420	LEU
3	B	437	THR
3	B	446	LYS
3	B	447	ARG
3	B	467	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
3	A	453	HIS

### 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 4 ligands modelled in this entry, 4 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 ⓘ

### 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	C	16/16 (100%)	0.32	0 100 100	93, 108, 125, 125	0
2	D	16/16 (100%)	0.88	3 (18%) 1 1	98, 112, 133, 139	0
3	A	73/114 (64%)	0.73	6 (8%) 12 11	52, 81, 111, 122	0
3	B	72/114 (63%)	1.15	11 (15%) 2 2	58, 98, 122, 133	0
All	All	177/260 (68%)	0.88	20 (11%) 6 5	52, 94, 123, 139	0

All (20) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	B	442	LYS	4.8
3	B	452	GLN	4.8
3	B	490	ALA	4.8
3	A	427	GLU	3.5
3	A	418	PRO	3.5
3	B	445	PHE	3.0
2	D	3	DG	3.0
3	B	489	GLU	2.7
3	A	490	ALA	2.7
3	A	455	TYR	2.6
3	B	437	THR	2.5
2	D	2	DT	2.5
3	B	447	ARG	2.5
3	B	443	VAL	2.4
3	A	419	LYS	2.3
2	D	1	DT	2.3
3	B	427	GLU	2.3
3	B	453	HIS	2.2
3	B	488	LEU	2.2
3	A	474	PRO	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, 95<sup>th</sup> 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( $\text{\AA}^2$ )	Q<0.9
4	ZN	A	601	1/1	0.91	0.16	-0.57	95,95,95,95	0
4	ZN	B	601	1/1	1.00	0.18	-0.72	54,54,54,54	0
4	ZN	B	602	1/1	0.99	0.12	-1.65	89,89,89,89	0
4	ZN	A	602	1/1	0.99	0.13	-1.68	51,51,51,51	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.