



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 15, 2017 – 02:35 am GMT

PDB ID : 1KBV
Title : NITRITE-SOAKED CRYSTAL STRUCTURE OF THE SOLUBLE DOMAIN OF ANIA FROM NEISSERIA GONORRHOEAE
Authors : Boulanger, M.J.; Murphy, M.E.P.
Deposited on : 2001-11-06
Resolution : 1.95 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 : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
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) : recalc28949

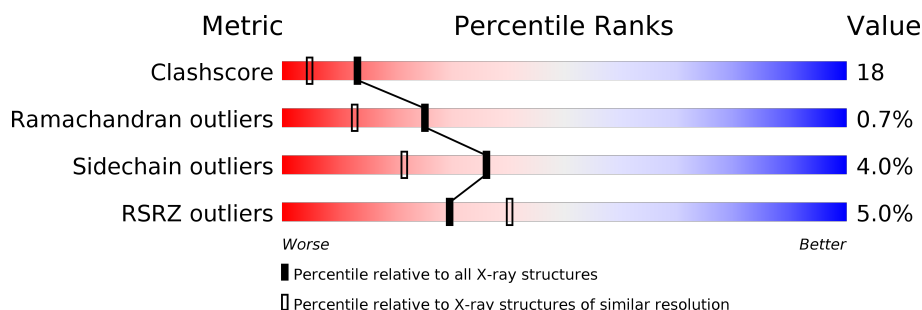
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 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))
Clashscore	112137	2136 (1.96-1.96)
Ramachandran outliers	110173	2117 (1.96-1.96)
Sidechain outliers	110143	2117 (1.96-1.96)
RSRZ outliers	101464	2018 (1.96-1.96)

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	327	<div> <div>3%</div> <div>68% 22% 8%</div> </div>
1	B	327	<div> <div>4%</div> <div>66% 24% 8%</div> </div>
1	C	327	<div> <div>5%</div> <div>69% 20% 8%</div> </div>
1	D	327	<div> <div>4%</div> <div>65% 25% 8%</div> </div>
1	E	327	<div> <div>5%</div> <div>68% 23% 8%</div> </div>
1	F	327	<div> <div>6%</div> <div>66% 24% 8%</div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard

residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	NO2	A	2504	-	-	-	X
3	NO2	C	2505	-	-	-	X
3	NO2	E	2507	-	-	-	X
3	NO2	F	2508	-	-	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 15834 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 Major outer membrane protein PAN 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	302	Total	C	N	O	S	0	0	0
			2291	1461	385	435	10			
1	B	302	Total	C	N	O	S	0	0	0
			2291	1461	385	435	10			
1	C	302	Total	C	N	O	S	0	0	0
			2291	1461	385	435	10			
1	D	302	Total	C	N	O	S	0	0	0
			2291	1461	385	435	10			
1	E	302	Total	C	N	O	S	0	0	0
			2291	1461	385	435	10			
1	F	302	Total	C	N	O	S	0	0	0
			2291	1461	385	435	10			

There are 48 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	INITIATING MET	UNP Q02219
A	209	ALA	SER	SEE REMARK 999	UNP Q02219
A	210	LEU	ILE	SEE REMARK 999	UNP Q02219
A	211	THR	ALA	SEE REMARK 999	UNP Q02219
A	283	ASN	SER	SEE REMARK 999	UNP Q02219
A	325	VAL	-	CLONING ARTIFACT	UNP Q02219
A	326	PRO	-	CLONING ARTIFACT	UNP Q02219
A	327	ARG	-	CLONING ARTIFACT	UNP Q02219
B	1	MET	-	INITIATING MET	UNP Q02219
B	209	ALA	SER	SEE REMARK 999	UNP Q02219
B	210	LEU	ILE	SEE REMARK 999	UNP Q02219
B	211	THR	ALA	SEE REMARK 999	UNP Q02219
B	283	ASN	SER	SEE REMARK 999	UNP Q02219
B	325	VAL	-	CLONING ARTIFACT	UNP Q02219
B	326	PRO	-	CLONING ARTIFACT	UNP Q02219
B	327	ARG	-	CLONING ARTIFACT	UNP Q02219
C	1	MET	-	INITIATING MET	UNP Q02219

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Chain	Residue	Modelled	Actual	Comment	Reference
C	209	ALA	SER	SEE REMARK 999	UNP Q02219
C	210	LEU	ILE	SEE REMARK 999	UNP Q02219
C	211	THR	ALA	SEE REMARK 999	UNP Q02219
C	283	ASN	SER	SEE REMARK 999	UNP Q02219
C	325	VAL	-	CLONING ARTIFACT	UNP Q02219
C	326	PRO	-	CLONING ARTIFACT	UNP Q02219
C	327	ARG	-	CLONING ARTIFACT	UNP Q02219
D	1	MET	-	INITIATING MET	UNP Q02219
D	209	ALA	SER	SEE REMARK 999	UNP Q02219
D	210	LEU	ILE	SEE REMARK 999	UNP Q02219
D	211	THR	ALA	SEE REMARK 999	UNP Q02219
D	283	ASN	SER	SEE REMARK 999	UNP Q02219
D	325	VAL	-	CLONING ARTIFACT	UNP Q02219
D	326	PRO	-	CLONING ARTIFACT	UNP Q02219
D	327	ARG	-	CLONING ARTIFACT	UNP Q02219
E	1	MET	-	INITIATING MET	UNP Q02219
E	209	ALA	SER	SEE REMARK 999	UNP Q02219
E	210	LEU	ILE	SEE REMARK 999	UNP Q02219
E	211	THR	ALA	SEE REMARK 999	UNP Q02219
E	283	ASN	SER	SEE REMARK 999	UNP Q02219
E	325	VAL	-	CLONING ARTIFACT	UNP Q02219
E	326	PRO	-	CLONING ARTIFACT	UNP Q02219
E	327	ARG	-	CLONING ARTIFACT	UNP Q02219
F	1	MET	-	INITIATING MET	UNP Q02219
F	209	ALA	SER	SEE REMARK 999	UNP Q02219
F	210	LEU	ILE	SEE REMARK 999	UNP Q02219
F	211	THR	ALA	SEE REMARK 999	UNP Q02219
F	283	ASN	SER	SEE REMARK 999	UNP Q02219
F	325	VAL	-	CLONING ARTIFACT	UNP Q02219
F	326	PRO	-	CLONING ARTIFACT	UNP Q02219
F	327	ARG	-	CLONING ARTIFACT	UNP Q02219

- Molecule 2 is COPPER (II) ION (three-letter code: CU) (formula: Cu).

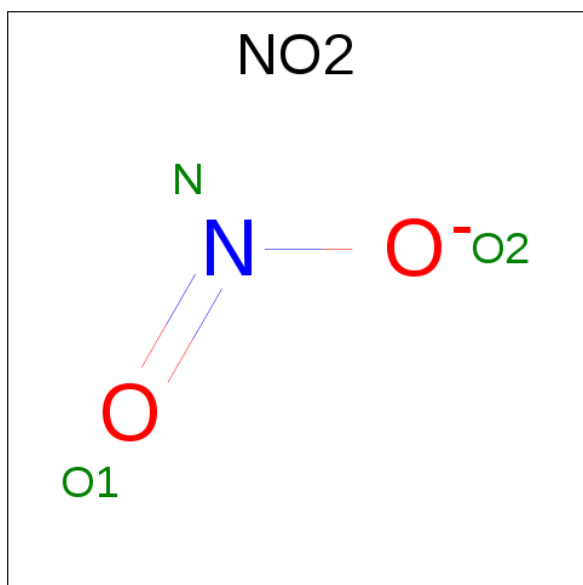
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	D	2	Total Cu 2 2	0	0
2	E	2	Total Cu 2 2	0	0
2	B	2	Total Cu 2 2	0	0
2	C	2	Total Cu 2 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Cu	0	0
			2	2		
2	F	2	Total	Cu	0	0
			2	2		

- Molecule 3 is NITRITE ION (three-letter code: NO₂) (formula: NO₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	N	O	0	0
			3	1	2		
3	C	1	Total	N	O	0	0
			3	1	2		
3	A	1	Total	N	O	0	0
			3	1	2		
3	E	1	Total	N	O	0	0
			3	1	2		
3	F	1	Total	N	O	0	0
			3	1	2		
3	D	1	Total	N	O	0	0
			3	1	2		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	377	Total	O	0	0
			377	377		

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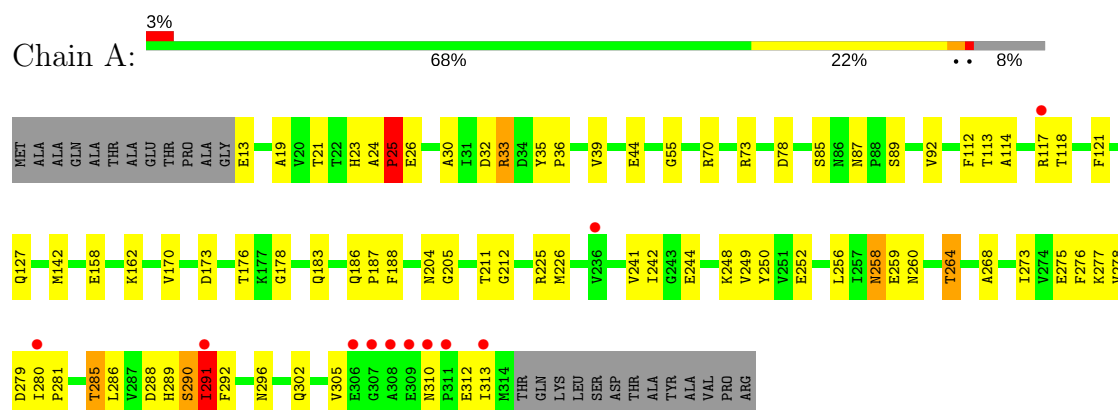
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	353	Total 353	O 353	0	0
4	C	310	Total 310	O 310	0	0
4	D	371	Total 371	O 371	0	0
4	E	317	Total 317	O 317	0	0
4	F	330	Total 330	O 330	0	0

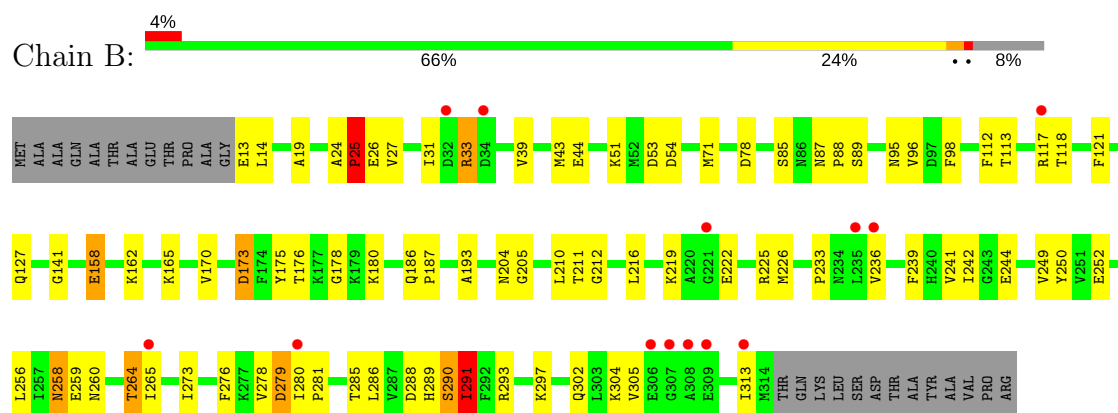
3 Residue-property plots [i](#)

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.

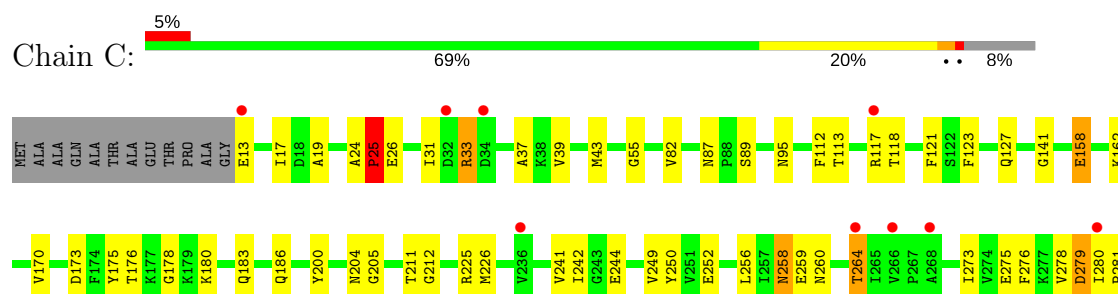
• Molecule 1: Major outer membrane protein PAN 1

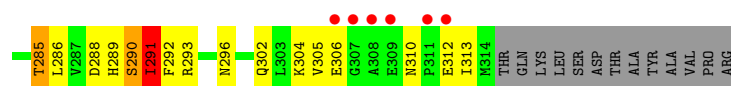


• Molecule 1: Major outer membrane protein PAN 1

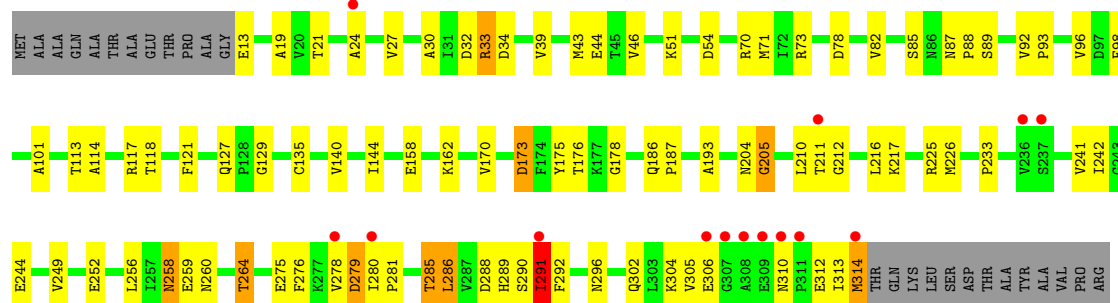


• Molecule 1: Major outer membrane protein PAN 1

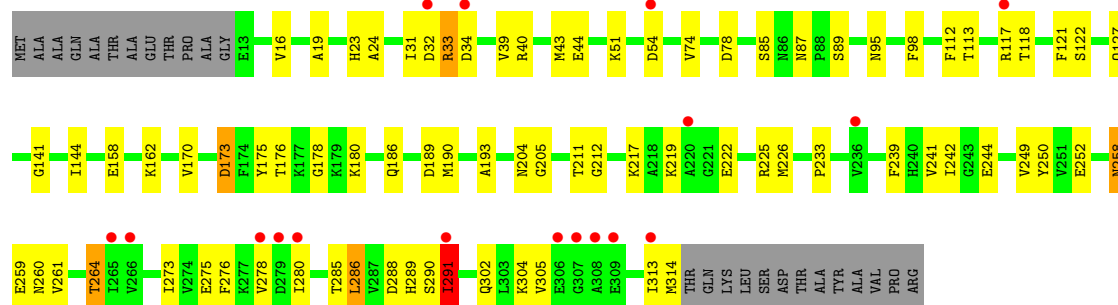




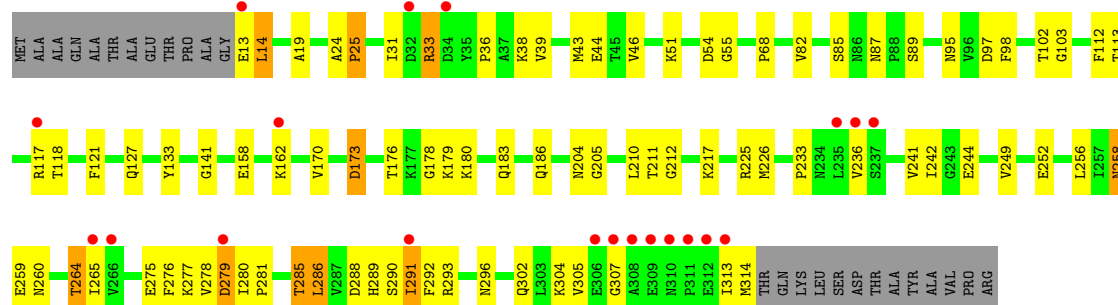
• Molecule 1: Major outer membrane protein PAN 1



• Molecule 1: Major outer membrane protein PAN 1



• Molecule 1: Major outer membrane protein PAN 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	65.29Å 98.09Å 102.30Å 83.89° 74.14° 73.32°	Depositor
Resolution (Å)	49.18 – 1.95 49.18 – 1.95	Depositor EDS
% Data completeness (in resolution range)	87.2 (49.18-1.95) 85.5 (49.18-1.95)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.23 (at 1.95Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.195 , 0.223 0.201 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	21.3	Xtriage
Anisotropy	0.188	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 59.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.075 for -h,-l,-k	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	15834	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.28% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: NO2, CU

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	0.41	0/2346	0.90	7/3185 (0.2%)
1	B	0.42	0/2346	0.90	6/3185 (0.2%)
1	C	0.41	0/2346	0.90	6/3185 (0.2%)
1	D	0.41	0/2346	0.86	5/3185 (0.2%)
1	E	0.40	0/2346	0.81	5/3185 (0.2%)
1	F	0.43	1/2346 (0.0%)	0.90	6/3185 (0.2%)
All	All	0.41	1/14076 (0.0%)	0.88	35/19110 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	293	ARG	C-O	5.42	1.33	1.23

The worst 5 of 35 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	24	ALA	C-N-CD	-21.89	72.44	120.60
1	A	24	ALA	C-N-CD	-21.78	72.68	120.60
1	B	24	ALA	C-N-CD	-21.78	72.69	120.60
1	F	24	ALA	C-N-CD	-19.83	76.98	120.60
1	D	24	ALA	C-N-CD	-18.24	80.48	120.60

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	2291	0	2234	94	0
1	B	2291	0	2234	82	0
1	C	2291	0	2234	77	0
1	D	2291	0	2234	107	0
1	E	2291	0	2234	87	0
1	F	2291	0	2234	93	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
3	A	6	0	0	2	0
3	C	3	0	0	1	0
3	D	3	0	0	1	0
3	E	3	0	0	1	0
3	F	3	0	0	1	0
4	A	377	0	0	12	0
4	B	353	0	0	4	0
4	C	310	0	0	5	0
4	D	371	0	0	16	0
4	E	317	0	0	10	0
4	F	330	0	0	8	0
All	All	15834	0	13404	493	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 18.

The worst 5 of 493 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:E:278:VAL:HG11	1:E:305:VAL:HG21	1.22	1.18
1:C:278:VAL:HG11	1:C:305:VAL:HG21	1.31	1.10
1:B:278:VAL:HG11	1:B:305:VAL:HG21	1.34	1.09
1:D:278:VAL:HG11	1:D:305:VAL:HG21	1.40	1.03
1:E:249:VAL:HG11	1:E:264:THR:HG21	1.42	1.01

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	300/327 (92%)	290 (97%)	8 (3%)	2 (1%)	25	13
1	B	300/327 (92%)	289 (96%)	9 (3%)	2 (1%)	25	13
1	C	300/327 (92%)	288 (96%)	10 (3%)	2 (1%)	25	13
1	D	300/327 (92%)	289 (96%)	9 (3%)	2 (1%)	25	13
1	E	300/327 (92%)	291 (97%)	8 (3%)	1 (0%)	44	33
1	F	300/327 (92%)	287 (96%)	10 (3%)	3 (1%)	18	7
All	All	1800/1962 (92%)	1734 (96%)	54 (3%)	12 (1%)	25	13

5 of 12 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	25	PRO
1	B	25	PRO
1	C	25	PRO
1	F	14	LEU
1	F	25	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	239/259 (92%)	231 (97%)	8 (3%)	43	30
1	B	239/259 (92%)	228 (95%)	11 (5%)	31	16
1	C	239/259 (92%)	229 (96%)	10 (4%)	34	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	239/259 (92%)	228 (95%)	11 (5%)	31	16
1	E	239/259 (92%)	231 (97%)	8 (3%)	43	30
1	F	239/259 (92%)	230 (96%)	9 (4%)	38	24
All	All	1434/1554 (92%)	1377 (96%)	57 (4%)	36	21

5 of 57 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	279	ASP
1	D	121	PHE
1	F	258	ASN
1	C	285	THR
1	C	291	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 32 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	204	ASN
1	C	296	ASN
1	F	204	ASN
1	C	260	ASN
1	D	23	HIS

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 carbohydrates in this entry.

5.6 Ligand geometry

Of 18 ligands modelled in this entry, 12 are monoatomic - leaving 6 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	NO2	A	2504	2	1,2,2	5.00	1 (100%)	0,1,1	0.00	-
3	NO2	A	2506	2	1,2,2	4.95	1 (100%)	0,1,1	0.00	-
3	NO2	C	2505	2	1,2,2	4.97	1 (100%)	0,1,1	0.00	-
3	NO2	D	2509	2	1,2,2	5.01	1 (100%)	0,1,1	0.00	-
3	NO2	E	2507	2	1,2,2	5.05	1 (100%)	0,1,1	0.00	-
3	NO2	F	2508	2	1,2,2	4.99	1 (100%)	0,1,1	0.00	-

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	NO2	A	2504	2	-	0/0/0/0	0/0/0/0
3	NO2	A	2506	2	-	0/0/0/0	0/0/0/0
3	NO2	C	2505	2	-	0/0/0/0	0/0/0/0
3	NO2	D	2509	2	-	0/0/0/0	0/0/0/0
3	NO2	E	2507	2	-	0/0/0/0	0/0/0/0
3	NO2	F	2508	2	-	0/0/0/0	0/0/0/0

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	2506	NO2	O1-N	4.95	1.45	1.21
3	C	2505	NO2	O1-N	4.97	1.45	1.21
3	F	2508	NO2	O1-N	4.99	1.45	1.21
3	A	2504	NO2	O1-N	5.00	1.45	1.21
3	D	2509	NO2	O1-N	5.01	1.45	1.21

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	2504	NO2	1	0
3	A	2506	NO2	1	0
3	C	2505	NO2	1	0
3	D	2509	NO2	1	0
3	E	2507	NO2	1	0
3	F	2508	NO2	1	0

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	302/327 (92%)	0.13	11 (3%) 43 54	12, 20, 35, 59	0
1	B	302/327 (92%)	0.07	13 (4%) 36 47	12, 21, 33, 51	0
1	C	302/327 (92%)	0.19	15 (4%) 30 40	13, 23, 38, 55	0
1	D	302/327 (92%)	0.11	14 (4%) 33 44	12, 20, 36, 55	0
1	E	302/327 (92%)	0.19	17 (5%) 25 35	12, 23, 36, 49	0
1	F	302/327 (92%)	0.27	20 (6%) 19 28	13, 22, 37, 58	0
All	All	1812/1962 (92%)	0.16	90 (4%) 30 40	12, 22, 36, 59	0

The worst 5 of 90 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	13	GLU	6.6
1	F	308	ALA	5.5
1	A	308	ALA	5.0
1	F	307	GLY	4.5
1	F	32	ASP	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. 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
3	NO2	F	2508	3/3	0.94	0.19	6.17	31,31,34,35	0
3	NO2	C	2505	3/3	0.92	0.22	4.79	32,32,35,35	0
3	NO2	E	2507	3/3	0.85	0.23	3.18	30,30,33,35	0
3	NO2	A	2504	3/3	0.88	0.20	2.75	32,32,33,35	0
3	NO2	A	2506	3/3	0.87	0.21	1.92	27,27,32,33	0
3	NO2	D	2509	3/3	0.90	0.17	1.19	26,26,29,32	0
2	CU	E	501	1/1	0.99	0.05	-2.24	25,25,25,25	0
2	CU	B	501	1/1	1.00	0.04	-2.36	22,22,22,22	0
2	CU	A	501	1/1	1.00	0.04	-2.56	20,20,20,20	0
2	CU	F	501	1/1	1.00	0.04	-2.85	22,22,22,22	0
2	CU	D	501	1/1	1.00	0.04	-2.98	20,20,20,20	0
2	CU	C	501	1/1	1.00	0.03	-4.75	21,21,21,21	0
2	CU	B	502	1/1	1.00	0.04	-	24,24,24,24	0
2	CU	D	502	1/1	1.00	0.03	-	23,23,23,23	0
2	CU	E	502	1/1	1.00	0.03	-	25,25,25,25	0
2	CU	C	502	1/1	1.00	0.04	-	23,23,23,23	0
2	CU	A	502	1/1	1.00	0.04	-	21,21,21,21	0
2	CU	F	502	1/1	1.00	0.03	-	24,24,24,24	0

6.5 Other polymers [i](#)

There are no such residues in this entry.