



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 26, 2024 – 10:28 AM EDT

PDB ID : 6SRG
Title : Crystal Structure of Human Prolidase G448R variant expressed in the presence of chaperones
Authors : Wator, E.; Wilk, P.
Deposited on : 2019-09-05
Resolution : 2.56 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

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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.37.1
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

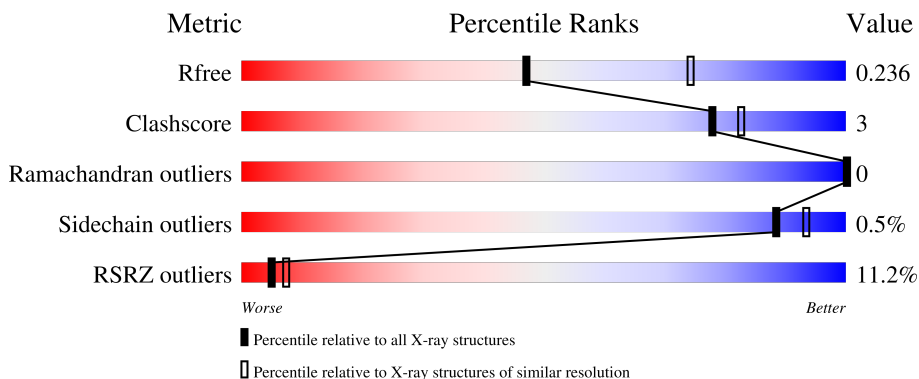
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.56 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}	130704	1279 (2.58-2.54)
Clashscore	141614	1327 (2.58-2.54)
Ramachandran outliers	138981	1312 (2.58-2.54)
Sidechain outliers	138945	1312 (2.58-2.54)
RSRZ outliers	127900	1269 (2.58-2.54)

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	493	 9% 88% 8%
1	B	493	 12% 87% 8% 5%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 14633 atoms, of which 7184 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 Xaa-Pro dipeptidase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	A	455	7149	2274	3545	627	673	30	0	8	0
1	B	468	7283	2328	3605	639	682	29	0	3	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	448	ARG	GLY	engineered mutation	UNP P12955
B	448	ARG	GLY	engineered mutation	UNP P12955

- Molecule 2 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn).

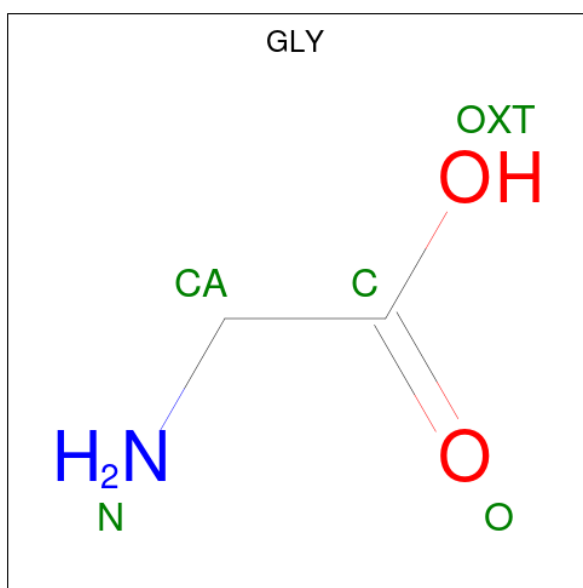
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Mn	0	0
			2	2		
2	B	2	Total	Mn	0	0
			2	2		

- Molecule 3 is HYDROXIDE ION (three-letter code: OH) (formula: HO).



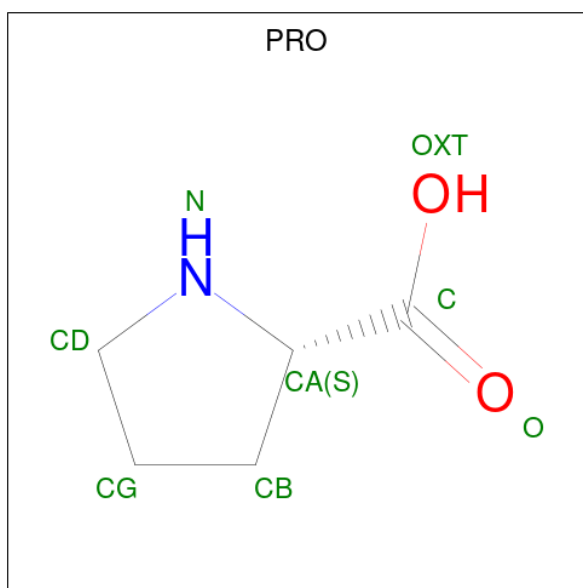
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	H	O	0	0
			2	1	1		
3	B	1	Total	H	O	0	0
			2	1	1		

- Molecule 4 is GLYCINE (three-letter code: GLY) (formula: C₂H₅NO₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
4	A	1	Total	C	H	N	O	0	0
			9	2	5	1	1		
4	B	1	Total	C	H	N	O	0	0
			9	2	5	1	1		

- Molecule 5 is PROLINE (three-letter code: PRO) (formula: $C_5H_9NO_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
5	A	1	Total	C	H	N	O	0	0
			15	5	7	1	2		
5	B	1	Total	C	H	N	O	0	0
			15	5	7	1	2		

- Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
6	B	1	Total	C	H	O	0	0
			14	3	8	3		

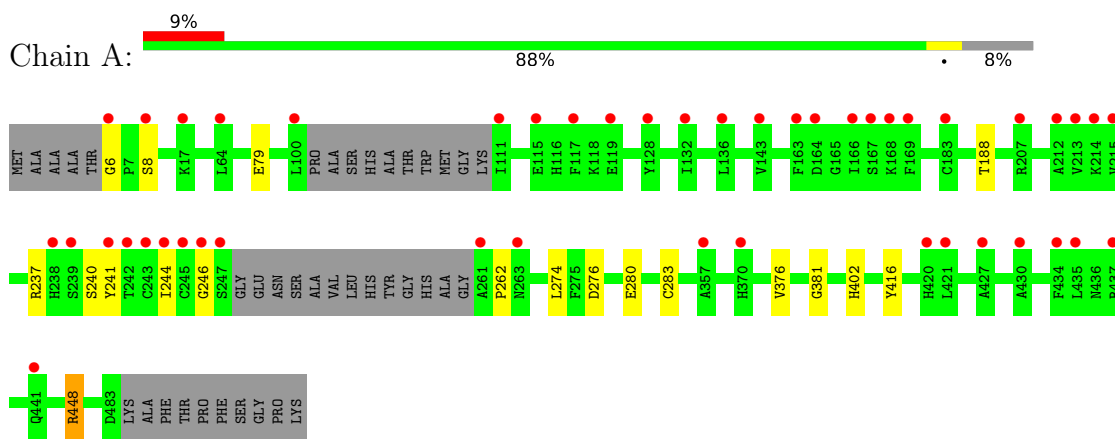
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	59	Total	O	0	0
			59	59		
7	B	72	Total	O	0	0
			72	72		

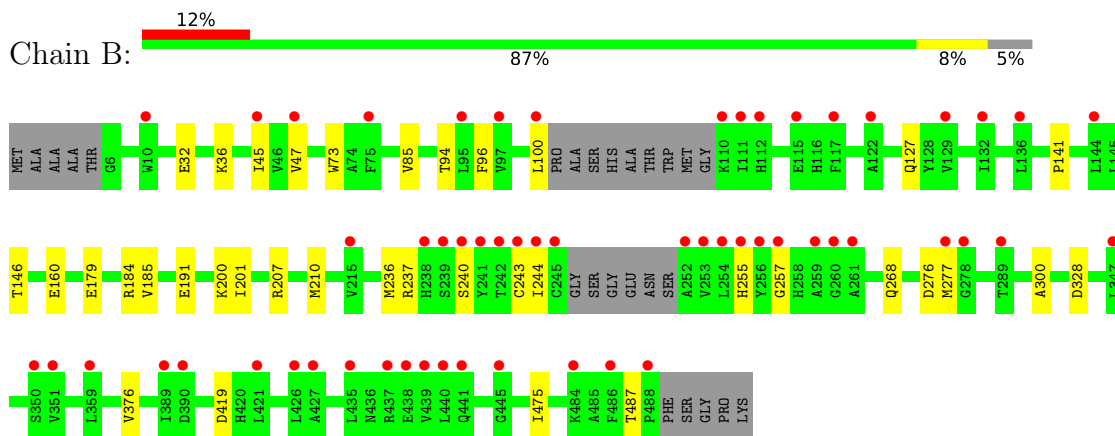
3 Residue-property plots [i](#)

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: Xaa-Pro dipeptidase



- Molecule 1: Xaa-Pro dipeptidase



4 Data and refinement statistics i

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	103.74Å 108.18Å 210.98Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.13 – 2.56 48.13 – 2.56	Depositor EDS
% Data completeness (in resolution range)	99.7 (48.13-2.56) 99.7 (48.13-2.56)	Depositor EDS
R_{merge}	0.38	Depositor
R_{sym}	0.38	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.95 (at 2.54Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.207 , 0.237 0.206 , 0.236	Depositor DCC
R_{free} test set	1929 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	51.6	Xtrriage
Anisotropy	0.201	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.44 , 42.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	0.034 for -k,-h,-l	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	14633	wwPDB-VP
Average B, all atoms (Å ²)	64.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.11% 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: GOL, OH, MN

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	0.46	0/3703	0.62	2/5002 (0.0%)
1	B	0.42	0/3767	0.57	0/5093
All	All	0.44	0/7470	0.60	2/10095 (0.0%)

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	B	0	1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	8[A]	SER	O-C-N	-5.99	113.12	122.70
1	A	8[B]	SER	O-C-N	-5.99	113.12	122.70

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	487	THR	Mainchain

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	3604	3545	3546	16	0
1	B	3678	3605	3614	27	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
3	A	1	1	0	0	0
3	B	1	1	0	0	0
4	A	4	5	2	0	0
4	B	4	5	2	0	0
5	A	8	7	7	0	0
5	B	8	7	7	0	0
6	B	6	8	8	0	0
7	A	59	0	0	10	0
7	B	72	0	0	10	0
All	All	7449	7184	7186	42	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 3.

All (42) 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:B:419:ASP:OD1	7:B:601:HOH:O	1.83	0.96
1:B:328:ASP:OD1	7:B:603:HOH:O	1.84	0.95
1:A:283:CYS:HA	7:A:604:HOH:O	1.68	0.93
1:B:179:GLU:OE2	7:B:604:HOH:O	1.90	0.89
1:A:283:CYS:N	7:A:604:HOH:O	2.07	0.84
1:A:283:CYS:CA	7:A:604:HOH:O	2.26	0.82
1:B:300:ALA:O	7:B:606:HOH:O	1.96	0.81
1:B:47:VAL:O	7:B:607:HOH:O	2.01	0.77
1:B:185:VAL:O	7:B:608:HOH:O	2.02	0.77
1:B:45:ILE:CG2	1:B:85[B]:VAL:HG13	2.23	0.69
1:B:191:GLU:OE1	7:B:610:HOH:O	2.11	0.67
1:A:381:GLY:N	7:A:601:HOH:O	2.27	0.66
1:B:200:LYS:NZ	7:B:605:HOH:O	1.94	0.66
1:A:402:HIS:ND1	7:A:607:HOH:O	2.29	0.65
1:B:210:MET:HE3	1:B:475:ILE:HG23	1.78	0.64
1:A:280:GLU:HG2	7:A:604:HOH:O	1.99	0.62
1:A:280:GLU:OE2	7:A:604:HOH:O	2.16	0.62
1:A:188:THR:OG1	7:A:602:HOH:O	1.98	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:416:TYR:CD2	1:A:448:ARG:HB2	2.37	0.60
1:A:244:ILE:HB	1:A:276:ASP:HB3	1.90	0.54
1:B:85[A]:VAL:HG22	1:B:94:THR:HB	1.89	0.54
1:B:240:SER:HB3	1:B:376:VAL:CG2	2.39	0.53
1:A:6:GLY:N	7:A:611:HOH:O	2.44	0.50
1:A:240:SER:HB3	1:A:376:VAL:CG2	2.42	0.50
1:A:241:TYR:OH	1:A:276:ASP:OD1	2.30	0.49
1:B:207:ARG:NE	7:B:620:HOH:O	2.44	0.49
1:B:32:GLU:O	1:B:36:LYS:HG3	2.13	0.48
1:B:201:ILE:HB	1:B:236:MET:HE1	1.95	0.48
1:A:246:GLY:N	1:A:274:LEU:O	2.48	0.47
1:A:262:PRO:HG3	1:B:237:ARG:HB2	1.96	0.47
1:B:210:MET:HB3	1:B:210:MET:HE2	1.90	0.44
1:B:244:ILE:HB	1:B:276:ASP:HB3	1.99	0.44
1:A:79:GLU:HG3	1:B:257:GLY:HA3	2.00	0.43
1:B:100:LEU:N	7:B:609:HOH:O	2.09	0.42
1:B:45:ILE:CD1	1:B:141:PRO:HB3	2.50	0.42
1:B:73:TRP:CD1	1:B:184:ARG:HG2	2.55	0.42
1:B:45:ILE:HG23	1:B:85[B]:VAL:HG13	2.02	0.41
1:B:96:PHE:HA	1:B:127:GLN:O	2.21	0.41
1:B:243:CYS:HB3	1:B:277:MET:HG2	2.03	0.40
1:B:45:ILE:HD12	1:B:141:PRO:HB3	2.03	0.40
1:B:146:THR:HB	1:B:160:GLU:HG3	2.03	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	
1	A	457/493 (93%)	450 (98%)	7 (2%)	0	100	100
1	B	465/493 (94%)	454 (98%)	11 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	922/986 (94%)	904 (98%)	18 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	394/411 (96%)	392 (100%)	2 (0%)	88	93
1	B	398/411 (97%)	396 (100%)	2 (0%)	88	93
All	All	792/822 (96%)	788 (100%)	4 (0%)	88	93

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	237	ARG
1	A	448	ARG
1	B	255	HIS
1	B	268	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 11 ligands modelled in this entry, 4 are monoatomic and 2 are modelled with single atom - leaving 5 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
4	GLY	B	504	2	3,3,4	0.85	0	0,2,4	-	-
5	PRO	A	505	-	8,8,8	0.83	0	10,10,10	1.46	2 (20%)
6	GOL	B	506	-	5,5,5	0.38	0	5,5,5	0.15	0
5	PRO	B	505	-	8,8,8	0.88	1 (12%)	10,10,10	1.45	2 (20%)
4	GLY	A	504	2	3,3,4	0.71	0	0,2,4	-	-

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
4	GLY	B	504	2	-	0/0/1/2	-
5	PRO	A	505	-	-	0/4/11/11	0/1/1/1
6	GOL	B	506	-	-	4/4/4/4	-
5	PRO	B	505	-	-	4/4/11/11	0/1/1/1
4	GLY	A	504	2	-	0/0/1/2	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	505	PRO	OXT-C	-2.13	1.23	1.30

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	B	505	PRO	OXT-C-O	-2.93	117.44	124.09
5	A	505	PRO	OXT-C-O	-2.78	117.77	124.09
5	A	505	PRO	OXT-C-CA	2.63	122.14	113.40
5	B	505	PRO	OXT-C-CA	2.25	120.87	113.40

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	B	506	GOL	O1-C1-C2-C3
6	B	506	GOL	C1-C2-C3-O3
6	B	506	GOL	O1-C1-C2-O2
6	B	506	GOL	O2-C2-C3-O3
5	B	505	PRO	O-C-CA-CB
5	B	505	PRO	O-C-CA-N
5	B	505	PRO	OXT-C-CA-N
5	B	505	PRO	OXT-C-CA-CB

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, 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	455/493 (92%)	0.77	46 (10%) 7 10	38, 53, 79, 138	0
1	B	468/493 (94%)	0.87	57 (12%) 4 6	42, 55, 92, 134	0
All	All	923/986 (93%)	0.82	103 (11%) 5 7	38, 54, 88, 138	0

All (103) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	242	THR	9.7
1	B	243	CYS	9.3
1	B	255	HIS	7.2
1	B	111	ILE	6.5
1	A	246	GLY	6.3
1	A	243	CYS	6.1
1	B	241	TYR	5.7
1	B	252	ALA	5.7
1	A	247	SER	5.7
1	A	245	CYS	5.4
1	A	168	LYS	4.8
1	A	242	THR	4.8
1	B	256	TYR	4.7
1	B	257	GLY	4.6
1	B	244	ILE	4.6
1	B	259	ALA	4.3
1	B	260	GLY	4.2
1	B	389	ILE	4.2
1	A	244	ILE	4.2
1	A	166	ILE	4.0
1	B	437	ARG	3.9
1	B	245	CYS	3.8
1	A	164[A]	ASP	3.4
1	A	167	SER	3.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	111	ILE	3.4
1	B	47	VAL	3.3
1	B	253	VAL	3.3
1	B	75	PHE	3.2
1	B	122	ALA	3.2
1	B	239	SER	3.2
1	B	132	ILE	3.2
1	B	117	PHE	3.2
1	B	347	LEU	3.2
1	B	435	LEU	3.1
1	A	119	GLU	3.1
1	A	261	ALA	3.1
1	B	215	VAL	3.0
1	B	441	GLN	3.0
1	B	112	HIS	3.0
1	B	100	LEU	3.0
1	A	238	HIS	2.9
1	B	238	HIS	2.9
1	B	445	GLY	2.9
1	B	45	ILE	2.9
1	B	440	LEU	2.9
1	A	263	ASN	2.8
1	A	420	HIS	2.8
1	A	435	LEU	2.8
1	B	254	LEU	2.8
1	A	437	ARG	2.8
1	A	132	ILE	2.8
1	A	241	TYR	2.7
1	A	427	ALA	2.7
1	A	6	GLY	2.7
1	B	115	GLU	2.7
1	B	438	GLU	2.7
1	A	163	PHE	2.7
1	A	128	TYR	2.7
1	A	214	LYS	2.7
1	A	8[A]	SER	2.6
1	A	213	VAL	2.6
1	A	434	PHE	2.5
1	B	110	LYS	2.5
1	B	421	LEU	2.5
1	B	359	LEU	2.5
1	B	439	VAL	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	B	261	ALA	2.4
1	B	289	THR	2.4
1	A	100	LEU	2.4
1	B	97	VAL	2.4
1	B	488	PRO	2.4
1	A	207	ARG	2.3
1	A	239	SER	2.3
1	B	484	LYS	2.3
1	B	351	VAL	2.3
1	B	390	ASP	2.3
1	A	169	PHE	2.3
1	A	117	PHE	2.2
1	A	115	GLU	2.2
1	B	426	LEU	2.2
1	B	427	ALA	2.2
1	B	136	LEU	2.2
1	B	10	TRP	2.2
1	B	240	SER	2.2
1	A	64	LEU	2.1
1	B	277	MET	2.1
1	A	143	VAL	2.1
1	B	486	PHE	2.1
1	A	370	HIS	2.1
1	B	144	LEU	2.1
1	B	350	SER	2.1
1	A	441	GLN	2.1
1	A	212	ALA	2.1
1	A	430	ALA	2.0
1	B	129	VAL	2.0
1	A	136	LEU	2.0
1	B	278	GLY	2.0
1	A	183	CYS	2.0
1	A	357	ALA	2.0
1	A	215	VAL	2.0
1	A	17	LYS	2.0
1	A	421	LEU	2.0
1	B	95	LEU	2.0

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 [i](#)

There are no monosaccharides 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
5	PRO	B	505	8/8	0.85	0.34	67,88,116,116	0
5	PRO	A	505	8/8	0.88	0.29	62,83,97,114	0
6	GOL	B	506	6/6	0.90	0.29	60,80,96,101	0
4	GLY	B	504	4/5	0.91	0.43	49,83,100,100	0
4	GLY	A	504	4/5	0.92	0.26	58,71,89,89	0
2	MN	B	502	1/1	0.95	0.20	57,57,57,57	0
2	MN	A	502	1/1	0.95	0.20	65,65,65,65	1
3	OH	B	503	1/1	0.97	0.25	68,68,68,82	0
2	MN	A	501	1/1	0.97	0.22	51,51,51,51	0
2	MN	B	501	1/1	0.98	0.23	49,49,49,49	0
3	OH	A	503	1/1	0.98	0.20	68,68,68,82	2

6.5 Other polymers [i](#)

There are no such residues in this entry.