



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 01:57 AM UTC

PDB ID : 3OZ6 / pdb_00003oz6
Title : Crystal structure of MapK from *Cryptosporidium Parvum*, cgd2_1960
Authors : Wernimont, A.K.; Lew, J.; Lin, Y.H.; Sullivan, H.; Hassanali, A.; Kozieradzki, I.; Cossar, D.; Arrowsmith, C.H.; Bochkarev, A.; Bountra, C.; Edwards, A.M.; Weigelt, J.; Hui, R.; Neculai, A.M.; Hutchinson, A.; Structural Genomics Consortium (SGC)
Deposited on : 2010-09-24
Resolution : 2.37 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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

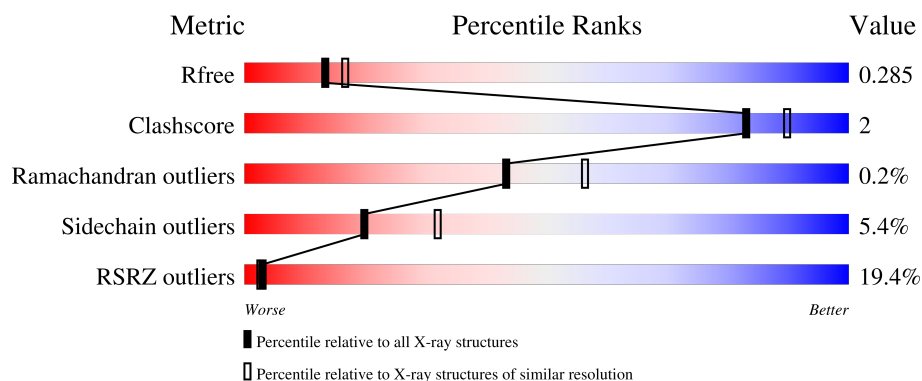
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.37 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}	180053	7164 (2.40-2.36)
Clashscore	190562	7722 (2.40-2.36)
Ramachandran outliers	187476	7626 (2.40-2.36)
Sidechain outliers	187428	7627 (2.40-2.36)
RSRZ outliers	180081	7170 (2.40-2.36)

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	388	 19% 76% 12% • 12%
1	B	388	 15% 78% 10% • 12%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 5390 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.

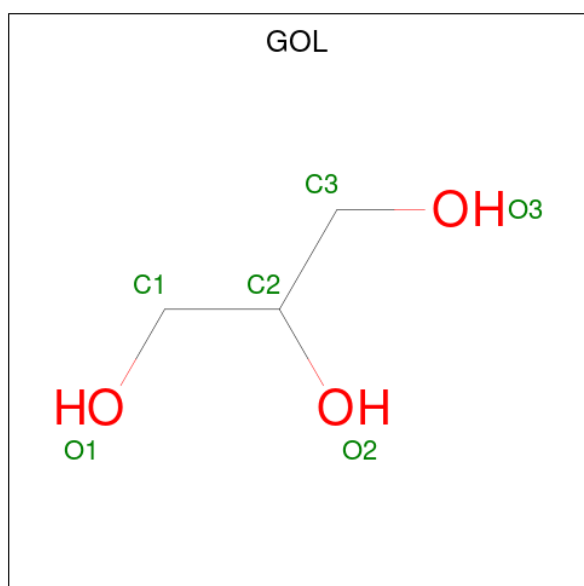
- Molecule 1 is a protein called Mitogen-activated protein kinase 1, serine/threonine protein kinase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	343	Total	C	N	O	S	0	4	0
			2665	1705	465	484	11			
1	B	341	Total	C	N	O	S	0	0	0
			2623	1671	457	484	11			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP A3FQ79
B	1	GLY	-	expression tag	UNP A3FQ79

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	B	1	Total	C	O	0	0
			6	3	3		

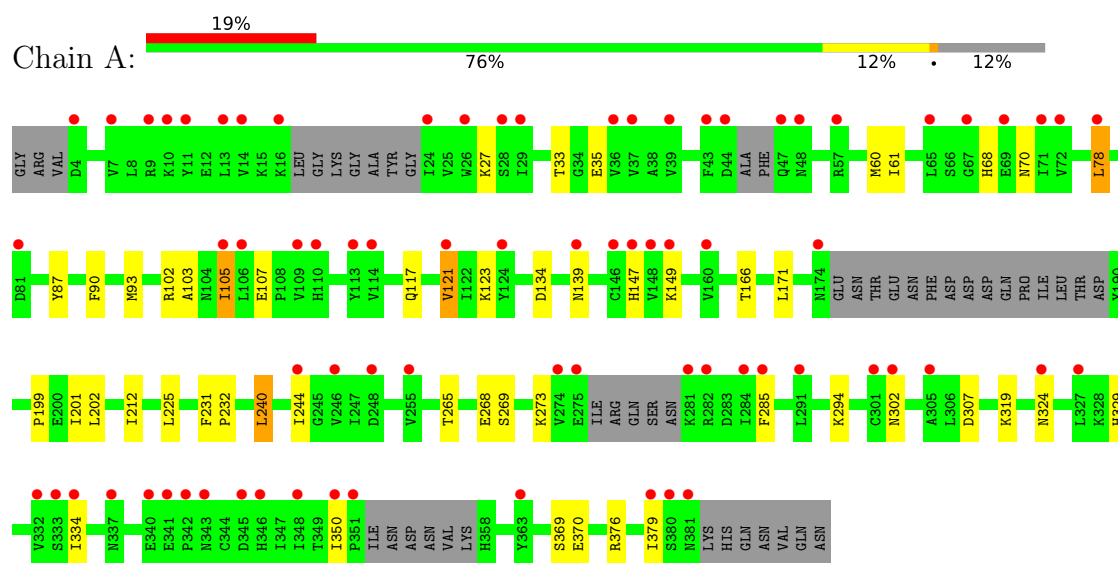
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	50	Total 50	O 50	0	0
3	B	46	Total 46	O 46	0	0

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: Mitogen-activated protein kinase 1, serine/threonine protein kinase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	74.30Å 91.75Å 119.98Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.68 – 2.37 46.68 – 2.37	Depositor EDS
% Data completeness (in resolution range)	98.4 (46.68-2.37) 98.7 (46.68-2.37)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.62 (at 2.37Å)	Xtriage
Refinement program	BUSTER-TNT, BUSTER 2.8.0	Depositor
R, R_{free}	0.231 , 0.260 0.242 , 0.285	Depositor DCC
R_{free} test set	1697 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	39.8	Xtriage
Anisotropy	0.789	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 52.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	5390	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.13% 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 ⓘ

5.1 Standard geometry ⓘ

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

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	0.89	0/2717	1.37	13/3690 (0.4%)
1	B	0.87	1/2672 (0.0%)	1.41	17/3628 (0.5%)
All	All	0.88	1/5389 (0.0%)	1.39	30/7318 (0.4%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	29	ILE	CG1-CD1	-5.62	1.29	1.51

All (30) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	27	LYS	N-CA-C	-6.36	100.00	109.15
1	A	90	PHE	CA-CB-CG	6.30	120.10	113.80
1	B	93	MET	CA-C-N	5.99	128.62	120.54
1	B	93	MET	C-N-CA	5.99	128.62	120.54
1	A	232	PRO	CA-C-N	5.90	125.58	119.92
1	A	232	PRO	C-N-CA	5.90	125.58	119.92
1	A	285	PHE	N-CA-C	5.75	117.63	111.36
1	A	68	HIS	CA-C-N	5.70	128.19	120.38
1	A	68	HIS	C-N-CA	5.70	128.19	120.38
1	A	376	ARG	CA-C-N	5.64	128.40	120.28
1	A	376	ARG	C-N-CA	5.64	128.40	120.28
1	A	302	ASN	CA-CB-CG	5.62	118.22	112.60
1	B	302	ASN	CA-CB-CG	5.59	118.19	112.60
1	B	359	SER	CA-C-N	5.55	127.56	120.56
1	B	359	SER	C-N-CA	5.55	127.56	120.56
1	B	231	PHE	CA-CB-CG	5.53	119.33	113.80
1	B	332	VAL	CA-C-N	5.51	128.43	120.38
1	B	332	VAL	C-N-CA	5.51	128.43	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	121	VAL	N-CA-CB	5.45	116.93	110.55
1	B	285	PHE	N-CA-C	5.45	117.30	111.36
1	A	231	PHE	CA-CB-CG	5.31	119.11	113.80
1	B	101	ILE	CA-C-N	5.22	127.28	120.28
1	B	101	ILE	C-N-CA	5.22	127.28	120.28
1	A	27	LYS	N-CA-C	-5.20	100.60	108.67
1	B	241	GLU	CA-C-N	5.17	127.21	120.28
1	B	241	GLU	C-N-CA	5.17	127.21	120.28
1	B	143	ASN	CA-CB-CG	5.15	117.75	112.60
1	A	107	GLU	CB-CG-CD	5.13	121.33	112.60
1	B	4	ASP	CA-C-N	5.06	127.57	120.28
1	B	4	ASP	C-N-CA	5.06	127.57	120.28

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	2665	0	2539	15	0
1	B	2623	0	2505	10	0
2	B	6	0	8	0	0
3	A	50	0	0	0	0
3	B	46	0	0	0	0
All	All	5390	0	5052	25	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 2.

All (25) 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:A:201:ILE:HD11	1:A:212:ILE:HG12	1.59	0.83
1:A:123:LYS:HE3	1:A:324:ASN:HD22	1.54	0.72
1:B:25:VAL:HG22	1:B:40:LYS:HG3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:GLN:O	1:A:121:VAL:HG23	1.90	0.71
1:B:61:ILE:HG12	1:B:350:ILE:HD11	1.74	0.69
1:B:12:GLU:HB3	1:B:29:ILE:HG23	1.82	0.61
1:A:134:ASP:O	1:A:139:ASN:ND2	2.35	0.59
1:A:61:ILE:HG12	1:A:350:ILE:HD11	1.83	0.59
1:A:78:LEU:HB2	1:A:87:TYR:HB2	1.88	0.54
1:B:194:ARG:HA	1:B:197:ARG:HG3	1.90	0.53
1:A:147[A]:HIS:HE1	1:A:149:LYS:HE3	1.74	0.53
1:B:78:LEU:HB2	1:B:87:TYR:HB2	1.91	0.53
1:B:260:SER:HB3	1:B:263:ALA:HB2	1.90	0.52
1:A:60:MET:HE1	1:A:370:GLU:HB2	1.91	0.52
1:A:33:THR:HG23	1:A:35:GLU:H	1.75	0.50
1:B:40:LYS:HD3	1:B:42:ILE:HG13	1.95	0.49
1:A:199:PRO:HA	1:A:202:LEU:HD12	1.96	0.48
1:B:199:PRO:HA	1:B:202:LEU:HD12	1.97	0.46
1:A:307:ASP:OD1	1:A:329[B]:HIS:HE1	2.01	0.44
1:A:93:MET:HE2	1:A:149:LYS:HB2	2.00	0.43
1:B:93:MET:HE2	1:B:149:LYS:HB2	2.00	0.42
1:A:70:ASN:CB	1:A:121:VAL:HG22	2.49	0.42
1:A:240:LEU:O	1:A:244:ILE:HG12	2.19	0.42
1:A:103:ALA:HB1	1:A:105:ILE:HD12	2.03	0.40
1:B:29:ILE:HD11	1:B:34:GLY:HA2	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	335/388 (86%)	323 (96%)	11 (3%)	1 (0%)	36	48
1	B	329/388 (85%)	319 (97%)	10 (3%)	0	100	100
All	All	664/776 (86%)	642 (97%)	21 (3%)	1 (0%)	43	56

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	379	ILE

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	273/356 (77%)	258 (94%)	15 (6%)	19	31
1	B	272/356 (76%)	258 (95%)	14 (5%)	21	34
All	All	545/712 (76%)	516 (95%)	29 (5%)	20	33

All (29) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	78	LEU
1	A	102	ARG
1	A	105	ILE
1	A	166	THR
1	A	171	LEU
1	A	225	LEU
1	A	240	LEU
1	A	265	THR
1	A	268	GLU
1	A	269	SER
1	A	273	LYS
1	A	294	LYS
1	A	319	LYS
1	A	334	ILE
1	A	369	SER
1	B	17	LEU
1	B	24	ILE
1	B	29	ILE
1	B	73	ASN
1	B	78	LEU
1	B	125	LEU
1	B	130	LEU

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Mol	Chain	Res	Type
1	B	167	ASN
1	B	168	ASN
1	B	225	LEU
1	B	349	THR
1	B	360	ILE
1	B	361	ASP
1	B	369	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	53	GLN
1	A	324	ASN
1	A	343	ASN
1	B	53	GLN
1	B	70	ASN
1	B	339	ASN
1	B	343	ASN
1	B	358	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

1 ligand is 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	$\# Z > 2$
2	GOL	B	389	-	5,5,5	0.51	0	5,5,5	0.80	0

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
2	GOL	B	389	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	389	GOL	C1-C2-C3-O3
2	B	389	GOL	O2-C2-C3-O3

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	343/388 (88%)	1.22	75 (21%)	2 2	26, 52, 78, 89	8 (2%)
1	B	341/388 (87%)	0.97	58 (17%)	4 4	24, 46, 79, 100	6 (1%)
All	All	684/776 (88%)	1.09	133 (19%)	3 2	24, 49, 79, 100	14 (2%)

All (133) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	270	LEU	6.0
1	A	381	ASN	6.0
1	A	346	HIS	5.6
1	A	44	ASP	5.5
1	A	351	PRO	5.4
1	A	275	GLU	5.3
1	A	284	ILE	5.3
1	B	162	ILE	5.1
1	B	166	THR	4.6
1	A	343	ASN	4.5
1	B	261	PRO	4.4
1	A	16	LYS	4.3
1	B	279	SER	4.2
1	B	20	GLY	4.2
1	A	342	PRO	3.9
1	B	273	LYS	3.9
1	B	263	ALA	3.9
1	A	274	VAL	3.9
1	A	81	ASP	3.9
1	B	255	VAL	3.8
1	B	170	PRO	3.8
1	B	360	ILE	3.7
1	B	267	ILE	3.7
1	B	269	SER	3.6

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Mol	Chain	Res	Type	RSRZ
1	A	24	ILE	3.6
1	B	266	MET	3.6
1	B	169	ILE	3.6
1	B	350	ILE	3.6
1	A	109	VAL	3.6
1	A	255	VAL	3.5
1	A	332	VAL	3.4
1	A	48	ASN	3.4
1	B	90	PHE	3.4
1	B	245	GLY	3.4
1	B	161	ASN	3.4
1	B	50	THR	3.4
1	B	376	ARG	3.4
1	B	204	GLY	3.3
1	A	380	SER	3.3
1	A	333[A]	SER	3.3
1	B	167	ASN	3.2
1	B	254	ASP	3.1
1	A	13	LEU	3.1
1	A	124	TYR	3.1
1	A	327	LEU	3.1
1	B	318	ASN	3.1
1	A	285	PHE	3.0
1	A	47	GLN	3.0
1	A	37	VAL	3.0
1	A	160	VAL	3.0
1	B	377	GLU	3.0
1	A	350	ILE	3.0
1	A	282	ARG	3.0
1	A	149	LYS	2.9
1	A	148	VAL	2.9
1	B	160	VAL	2.9
1	B	315	PHE	2.9
1	A	14	VAL	2.9
1	A	174	ASN	2.8
1	B	17	LEU	2.8
1	A	7	VAL	2.8
1	B	258	ILE	2.8
1	A	4	ASP	2.7
1	A	340	GLU	2.7
1	A	305	ALA	2.7
1	A	36	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	262	PHE	2.7
1	A	337	ASN	2.7
1	B	256	GLU	2.7
1	B	80	ALA	2.6
1	A	67	GLY	2.6
1	B	47	GLN	2.6
1	B	271	LYS	2.6
1	A	72	VAL	2.6
1	A	281	LYS	2.6
1	B	49	SER	2.5
1	A	9	ARG	2.5
1	B	3	VAL	2.5
1	B	268	GLU	2.5
1	B	357	LYS	2.5
1	B	72	VAL	2.5
1	A	139	ASN	2.5
1	B	352	ILE	2.4
1	A	65	LEU	2.4
1	A	106	LEU	2.4
1	B	45	ALA	2.4
1	B	250	PRO	2.4
1	A	348	ILE	2.4
1	B	46	PHE	2.4
1	B	244	ILE	2.4
1	A	11	TYR	2.4
1	A	69[A]	GLU	2.4
1	A	301	CYS	2.4
1	B	14	VAL	2.4
1	A	43	PHE	2.4
1	A	105	ILE	2.4
1	B	192	ALA	2.3
1	B	285	PHE	2.3
1	B	257	SER	2.3
1	B	32	ARG	2.3
1	A	29	ILE	2.3
1	A	114	VAL	2.3
1	A	345	ASP	2.3
1	A	26	TRP	2.3
1	A	147[A]	HIS	2.3
1	A	341	GLU	2.3
1	B	18	GLY	2.3
1	A	363	TYR	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	324	ASN	2.2
1	B	26	TRP	2.2
1	A	71	ILE	2.2
1	A	28	SER	2.2
1	A	291	LEU	2.2
1	B	65	LEU	2.2
1	A	57	ARG	2.2
1	A	302	ASN	2.2
1	A	10	LYS	2.2
1	A	78	LEU	2.1
1	A	244	ILE	2.1
1	A	379	ILE	2.1
1	A	110	HIS	2.1
1	A	248	ASP	2.1
1	A	39	VAL	2.1
1	A	121	VAL	2.1
1	A	246	VAL	2.1
1	B	23	GLY	2.1
1	A	146	CYS	2.1
1	B	53	GLN	2.1
1	B	78	LEU	2.1
1	A	334	ILE	2.0
1	A	113	TYR	2.0
1	B	19	LYS	2.0
1	B	203	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 ⓘ

There are no oligosaccharides 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. 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($\text{\AA}^2$)	Q<0.9
2	GOL	B	389	6/6	0.92	0.11	59,60,61,62	0

6.5 Other polymers [i](#)

There are no such residues in this entry.