



Full wwPDB X-ray Structure Validation Report

Feb 28, 2014 – 11:00 PM GMT

PDB ID : 2BCO
Title : X-ray structure of succinylglutamate desuccinalase from *Vibrio Parahaemolyticus* (RIMD 2210633) at the resolution 2.3 Å, Northeast Structural Genomics Target Vpr14
Authors : Kuzin, A.P.; Abashidze, M.; Forouhar, F.; Benach, J.; Zhou, W.; Acton, T.; Northeast Structural Genomics Consortium (NESG)
Deposited on : 2005-10-19
Resolution : 2.33 Å(reported)

This is a full wwPDB validation 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/ValidationPDFNotes.html>

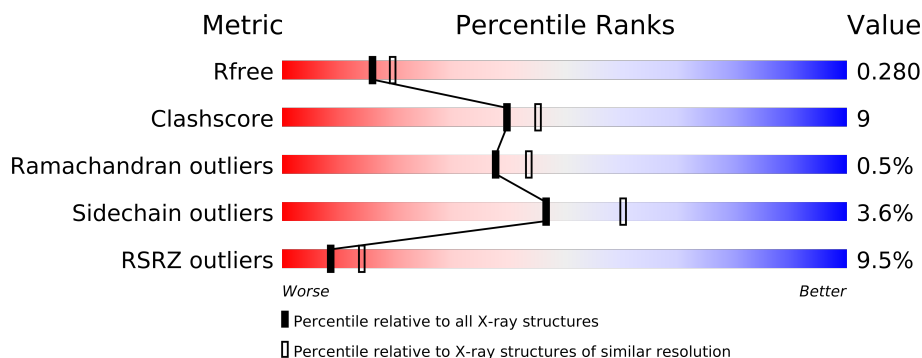
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

The reported resolution of this entry is 2.33 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}	66092	4049 (2.38-2.30)
Clashscore	79885	1094 (2.36-2.32)
Ramachandran outliers	78287	1080 (2.36-2.32)
Sidechain outliers	78261	1081 (2.36-2.32)
RSRZ outliers	66119	4050 (2.38-2.30)

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. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	350	
1	B	350	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5393 atoms, of which 0 are hydrogen and 0 are deuterium.

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 Succinylglutamate desuccinylase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	338	Total	C	N	O	S	Se	0	0	0
			2703	1710	470	513	5	5			
1	B	292	Total	C	N	O	S	Se	0	0	0
			2341	1485	404	443	5	4			

There are 28 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MSE	MET	MODIFIED RESIDUE	UNP Q87Q40
A	70	MSE	MET	MODIFIED RESIDUE	UNP Q87Q40
A	218	MSE	MET	MODIFIED RESIDUE	UNP Q87Q40
A	276	MSE	MET	MODIFIED RESIDUE	UNP Q87Q40
A	302	MSE	MET	MODIFIED RESIDUE	UNP Q87Q40
A	326	MSE	MET	MODIFIED RESIDUE	UNP Q87Q40
A	343	LEU	-	EXPRESSION TAG	UNP Q87Q40
A	344	GLU	-	EXPRESSION TAG	UNP Q87Q40
A	345	HIS	-	EXPRESSION TAG	UNP Q87Q40
A	346	HIS	-	EXPRESSION TAG	UNP Q87Q40
A	347	HIS	-	EXPRESSION TAG	UNP Q87Q40
A	348	HIS	-	EXPRESSION TAG	UNP Q87Q40
A	349	HIS	-	EXPRESSION TAG	UNP Q87Q40
A	350	HIS	-	EXPRESSION TAG	UNP Q87Q40
B	1	MSE	MET	MODIFIED RESIDUE	UNP Q87Q40
B	70	MSE	MET	MODIFIED RESIDUE	UNP Q87Q40
B	218	MSE	MET	MODIFIED RESIDUE	UNP Q87Q40
B	276	MSE	MET	MODIFIED RESIDUE	UNP Q87Q40
B	302	MSE	MET	MODIFIED RESIDUE	UNP Q87Q40
B	326	MSE	MET	MODIFIED RESIDUE	UNP Q87Q40
B	343	LEU	-	EXPRESSION TAG	UNP Q87Q40
B	344	GLU	-	EXPRESSION TAG	UNP Q87Q40
B	345	HIS	-	EXPRESSION TAG	UNP Q87Q40
B	346	HIS	-	EXPRESSION TAG	UNP Q87Q40
B	347	HIS	-	EXPRESSION TAG	UNP Q87Q40

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Chain	Residue	Modelled	Actual	Comment	Reference
B	348	HIS	-	EXPRESSION TAG	UNP Q87Q40
B	349	HIS	-	EXPRESSION TAG	UNP Q87Q40
B	350	HIS	-	EXPRESSION TAG	UNP Q87Q40

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total 1	Zn 1	0	0
2	A	1	Total 1	Zn 1	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	244	Total 244	O 244	0	0
3	B	103	Total 103	O 103	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	62.85Å 72.56Å 93.03Å 90.00° 105.66° 90.00°	Depositor
Resolution (Å)	30.26 – 2.33 30.26 – 2.33	Depositor EDS
% Data completeness (in resolution range)	87.0 (30.26-2.33) 93.2 (30.26-2.33)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	9.33 (at 2.34Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.213 , 0.267 0.225 , 0.280	Depositor DCC
R_{free} test set	1561 reflections (4.84%)	DCC
Wilson B-factor (Å ²)	23.6	Xtriage
Anisotropy	0.241	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 27.7	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 62924 reflections	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	5393	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.16% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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	A	0.37	0/2755	0.61	1/3725 (0.0%)
1	B	0.31	0/2381	0.57	1/3216 (0.0%)
All	All	0.35	0/5136	0.59	2/6941 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	217	THR	N-CA-C	-5.24	96.87	111.00
1	B	95	ILE	N-CA-C	-5.05	97.36	111.00

There are no chirality outliers.

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2703	0	2654	48	0
1	B	2341	0	2321	49	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	244	0	0	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	103	0	0	0	0
All	All	5393	0	4975	95	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 9.

All (95) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:66:GLU:HG3	1:B:156:CYS:HB2	1.35	1.03
1:B:152:LEU:HB3	1:B:218:MSE:HE1	1.50	0.93
1:B:262:VAL:HG12	1:B:328:CYS:HB3	1.60	0.81
1:B:33:GLN:HB2	1:B:45:ILE:HB	1.69	0.74
1:B:238:ASP:O	1:B:242:ARG:HG2	1.90	0.71
1:A:249:GLN:HE22	1:A:251:GLU:HB2	1.57	0.69
1:B:70:MSE:HE3	1:B:95:ILE:HG23	1.76	0.68
1:A:66:GLU:HG2	1:A:156:CYS:HB2	1.75	0.67
1:B:257:CYS:O	1:B:259:LYS:HD2	1.94	0.67
1:B:68:ALA:HB3	1:B:69:PRO:HD3	1.76	0.66
1:B:333:ARG:O	1:B:340:VAL:HG22	1.97	0.64
1:B:163:HIS:HE1	1:B:258:ILE:HD12	1.64	0.63
1:A:269:LEU:O	1:A:319:ILE:HD11	2.00	0.62
1:B:66:GLU:HG3	1:B:156:CYS:CB	2.22	0.61
1:B:159:ARG:NH1	1:B:313:PRO:HG2	2.16	0.60
1:A:166:PHE:CZ	1:A:219:GLU:HG3	2.36	0.60
1:A:185:LEU:HG	1:A:193:VAL:HG21	1.82	0.60
1:B:152:LEU:CB	1:B:218:MSE:HE1	2.28	0.59
1:B:110:GLU:O	1:B:126:GLU:HG2	2.03	0.59
1:A:330:VAL:HG13	1:A:332:THR:HG23	1.85	0.58
1:A:125:LYS:O	1:A:129:ILE:HG12	2.04	0.56
1:A:68:ALA:HB3	1:A:69:PRO:HD3	1.87	0.56
1:A:241:LEU:O	1:A:245:ILE:HG23	2.06	0.56
1:A:248:ALA:HB2	3:A:640:HOH:O	2.04	0.55
1:B:163:HIS:CE1	1:B:258:ILE:HD12	2.42	0.54
1:A:317:VAL:CG1	1:A:321:GLN:HB2	2.39	0.53
1:A:341:TYR:O	1:A:342:ASP:HB2	2.09	0.53
1:B:55:ASN:OD1	1:B:90:ARG:HD3	2.10	0.52
1:B:261:ARG:CZ	1:B:341:TYR:HB3	2.40	0.52
1:A:330:VAL:CG2	1:A:341:TYR:HB2	2.40	0.51
1:A:153:ASP:CG	1:A:155:HIS:HE2	2.14	0.51
1:A:317:VAL:HG13	1:A:321:GLN:HB2	1.94	0.50
1:A:188:ALA:O	1:A:189:HIS:HB2	2.12	0.50
1:B:335:GLU:HG2	1:B:336:GLU:HG2	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:229:ASN:HB2	1:A:231:LEU:HD13	1.93	0.49
1:A:28:LEU:HD12	1:A:32:VAL:HB	1.95	0.49
1:A:330:VAL:HG21	1:A:341:TYR:HB2	1.95	0.48
1:B:314:ASN:ND2	1:B:316:HIS:H	2.11	0.48
1:B:262:VAL:CG1	1:B:328:CYS:HB3	2.39	0.48
1:A:159:ARG:HD3	1:A:281:VAL:O	2.14	0.48
1:A:312:PHE:N	1:A:313:PRO:HD3	2.28	0.48
1:B:161:SER:HA	1:B:282:GLU:HB3	1.96	0.47
1:B:5:LEU:HD13	1:B:5:LEU:O	2.14	0.47
1:B:17:VAL:HG23	1:B:18:HIS:ND1	2.29	0.47
1:A:114:ARG:HA	1:A:201:SER:OG	2.13	0.47
1:B:30:ASN:HB2	1:B:32:VAL:HG23	1.97	0.47
1:A:322:ARG:HG3	1:A:322:ARG:HH11	1.80	0.47
1:A:330:VAL:HG13	1:A:332:THR:CG2	2.44	0.47
1:B:161:SER:HB3	1:B:283:ASN:HB2	1.97	0.46
1:B:47:GLU:O	1:B:49:PRO:HD3	2.15	0.46
1:B:222:ARG:HH11	1:B:222:ARG:HG3	1.81	0.46
1:B:14:THR:HG21	1:B:95:ILE:HG21	1.97	0.46
1:B:277:PHE:HB2	1:B:281:VAL:HG11	1.97	0.46
1:B:42:LEU:HD23	1:B:77:ILE:HD12	1.96	0.46
1:A:48:ASN:HB2	3:A:691:HOH:O	2.15	0.45
1:A:73:VAL:O	1:A:77:ILE:HG12	2.17	0.45
1:A:106:ARG:HG3	3:A:518:HOH:O	2.16	0.45
1:A:5:LEU:HD13	1:A:26:GLN:HB2	1.98	0.45
1:B:253:LEU:HD12	1:B:253:LEU:N	2.32	0.45
1:A:193:VAL:HG23	1:A:257:CYS:SG	2.57	0.44
1:A:314:ASN:HB3	1:A:317:VAL:HG23	1.99	0.44
1:B:233:ARG:C	1:B:234:LEU:HD12	2.38	0.44
1:B:92:LEU:HD13	1:B:94:ILE:HD11	1.99	0.44
1:A:110:GLU:O	1:A:126:GLU:HG2	2.18	0.44
1:B:193:VAL:HG13	1:B:193:VAL:O	2.18	0.44
1:A:70:MSE:HE1	1:A:101:THR:HG21	2.00	0.44
1:B:192:ALA:HB1	1:B:260:TYR:HD2	1.82	0.44
1:B:197:ASN:ND2	1:B:197:ASN:H	2.16	0.43
1:B:197:ASN:HD22	1:B:197:ASN:H	1.66	0.43
1:B:66:GLU:HG2	1:B:156:CYS:H	1.82	0.43
1:A:261:ARG:HD3	1:A:330:VAL:HG21	2.01	0.43
1:B:47:GLU:C	1:B:49:PRO:HD3	2.39	0.43
1:A:62:ILE:HD13	1:A:62:ILE:HA	1.92	0.43
1:B:11:LEU:CD1	1:B:70:MSE:HE2	2.49	0.43
1:B:220:LEU:HD21	1:B:237:PHE:CE2	2.54	0.42
1:A:224:ALA:HB3	1:A:229:ASN:OD1	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:130:ALA:O	1:A:134:LYS:HG3	2.19	0.42
1:B:69:PRO:HD3	1:B:156:CYS:SG	2.60	0.42
1:A:311:VAL:HG12	1:A:312:PHE:CD1	2.54	0.42
1:A:26:GLN:HE21	1:A:28:LEU:HD23	1.84	0.41
1:A:325:LEU:HA	1:A:325:LEU:HD12	1.92	0.41
1:A:261:ARG:HD3	1:A:330:VAL:CG2	2.51	0.41
1:A:67:THR:HB	1:A:226:ILE:HG12	2.02	0.41
1:A:264:ARG:NH2	1:A:302:MSE:O	2.54	0.41
1:B:13:ASP:HA	1:B:19:ILE:HD12	2.01	0.41
1:B:117:ASP:HB3	1:B:201:SER:HB3	2.03	0.41
1:A:135:LEU:HD21	1:B:125:LYS:HA	2.01	0.41
1:B:220:LEU:HD21	1:B:237:PHE:CZ	2.56	0.41
1:B:72:LEU:O	1:B:76:ILE:HG13	2.21	0.41
1:A:162:LYS:HE2	1:A:284:PHE:HB3	2.02	0.41
1:A:22:ALA:HB2	1:B:18:HIS:HA	2.03	0.41
1:A:310:ILE:HG12	1:A:313:PRO:HG3	2.03	0.40
1:A:70:MSE:CE	1:A:226:ILE:HD11	2.51	0.40
1:B:88:ASP:OD2	1:B:247:GLU:HB3	2.22	0.40
1:A:291:GLU:O	1:A:302:MSE:HA	2.21	0.40

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	334/350 (95%)	325 (97%)	9 (3%)	0	100	100
1	B	280/350 (80%)	247 (88%)	30 (11%)	3 (1%)	21	20
All	All	614/700 (88%)	572 (93%)	39 (6%)	3 (0%)	38	44

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	341	TYR

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Mol	Chain	Res	Type
1	B	264	ARG
1	B	259	LYS

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	298/304 (98%)	286 (96%)	12 (4%)	42	55
1	B	261/304 (86%)	253 (97%)	8 (3%)	52	66
All	All	559/608 (92%)	539 (96%)	20 (4%)	47	60

All (20) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	42	LEU
1	A	97	HIS
1	A	112	LEU
1	A	127	LEU
1	A	131	ASP
1	A	135	LEU
1	A	189	HIS
1	A	194	LEU
1	A	220	LEU
1	A	231	LEU
1	A	245	ILE
1	A	325	LEU
1	B	5	LEU
1	B	53	THR
1	B	92	LEU
1	B	97	HIS
1	B	138	ARG
1	B	197	ASN
1	B	314	ASN
1	B	341	TYR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	26	GLN
1	A	33	GLN
1	A	189	HIS
1	A	249	GLN
1	A	305	ASN
1	B	197	ASN
1	B	314	ASN

5.3.3 RNA ⓘ

There are no RNA chains 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 2 ligands modelled in this entry, 2 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.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

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	338/350 (96%)	-0.01	16 (4%) 30 41	6, 20, 65, 114	0
1	B	292/350 (83%)	0.87	44 (15%) 3 5	13, 45, 102, 152	0
All	All	630/700 (90%)	0.40	60 (9%) 8 14	6, 30, 93, 152	0

All (60) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	341	TYR	7.2
1	B	317	VAL	6.7
1	B	265	THR	6.3
1	B	253	LEU	5.3
1	B	325	LEU	5.1
1	B	263	SER	4.9
1	B	310	ILE	4.8
1	B	264	ARG	4.5
1	A	252	HIS	4.4
1	B	246	ALA	4.4
1	B	277	PHE	4.4
1	B	330	VAL	4.2
1	B	340	VAL	4.0
1	B	276	MSE	3.9
1	A	251	GLU	3.9
1	B	51	GLN	3.9
1	A	18	HIS	3.9
1	B	309	ALA	3.8
1	A	253	LEU	3.7
1	B	326	MSE	3.7
1	B	342	ASP	3.7
1	B	327	VAL	3.6
1	B	316	HIS	3.2
1	B	314	ASN	3.2

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Mol	Chain	Res	Type	RSRZ
1	B	279	ASP	3.1
1	B	50	THR	3.1
1	A	19	ILE	3.0
1	B	254	SER	3.0
1	B	262	VAL	3.0
1	B	162	LYS	2.9
1	B	21	VAL	2.8
1	B	332	THR	2.8
1	B	333	ARG	2.8
1	A	305	ASN	2.7
1	B	331	LYS	2.7
1	A	289	HIS	2.6
1	B	87	VAL	2.6
1	A	342	ASP	2.6
1	B	258	ILE	2.5
1	B	328	CYS	2.5
1	B	82	SER	2.5
1	B	232	ASP	2.4
1	B	60	CYS	2.4
1	B	17	VAL	2.4
1	B	216	LEU	2.4
1	B	27	VAL	2.4
1	B	84	PHE	2.4
1	A	21	VAL	2.3
1	B	86	LYS	2.3
1	A	249	GLN	2.3
1	A	250	PRO	2.2
1	A	17	VAL	2.2
1	A	319	ILE	2.1
1	B	338	GLU	2.1
1	B	260	TYR	2.1
1	A	51	GLN	2.1
1	A	306	ASP	2.1
1	A	299	LYS	2.1
1	B	312	PHE	2.1
1	B	19	ILE	2.1

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 carbohydrates 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. 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	RSR	LLDF	B-factors(Å ²)	Q<0.9
2	ZN	B	502	1/1	0.09	-1.87	62,62,62,62	0
2	ZN	A	501	1/1	0.06	-2.78	46,46,46,46	0

6.5 Other polymers

There are no such residues in this entry.