



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 4APR / pdb_00004apr
Title : STRUCTURES OF COMPLEXES OF RHIZOPUSPEPSIN WITH PEP-
STATIN AND OTHER STATINE-CONTAINING INHIBITORS
Authors : Suguna, K.; Davies, D.R.
Deposited on : 1989-08-03
Resolution : 2.50 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

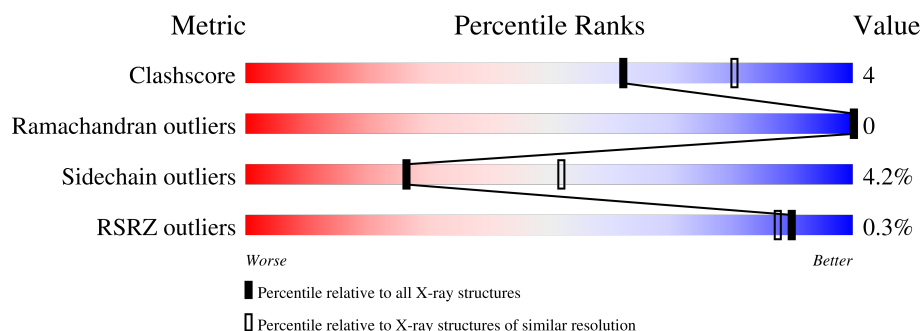
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	E	325	
2	I	8	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 2776 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 RHIZOPUSPEPSIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	E	325	Total	C	N	O	S	0	4	0
			2417	1524	399	488	6			

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	15	ILE	VAL	conflict	UNP P06026
E	54	GLY	ARG	conflict	UNP P06026
E	61	ASN	LYS	conflict	UNP P06026
E	116	SER	ASN	conflict	UNP P06026
E	162	LYS	SER	conflict	UNP P06026
E	230	ILE	VAL	conflict	UNP P06026
E	256	ALA	ARG	conflict	UNP P06026
E	281	PHE	TYR	conflict	UNP P06026
E	294	TRP	PHE	conflict	UNP P06026
E	295	GLY	ASP	conflict	UNP P06026

- Molecule 2 is a protein called PEPSTATIN-LIKE RENIN INHIBITOR.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	I	5	Total	C	N	O	0	0	0
			47	34	7	6			

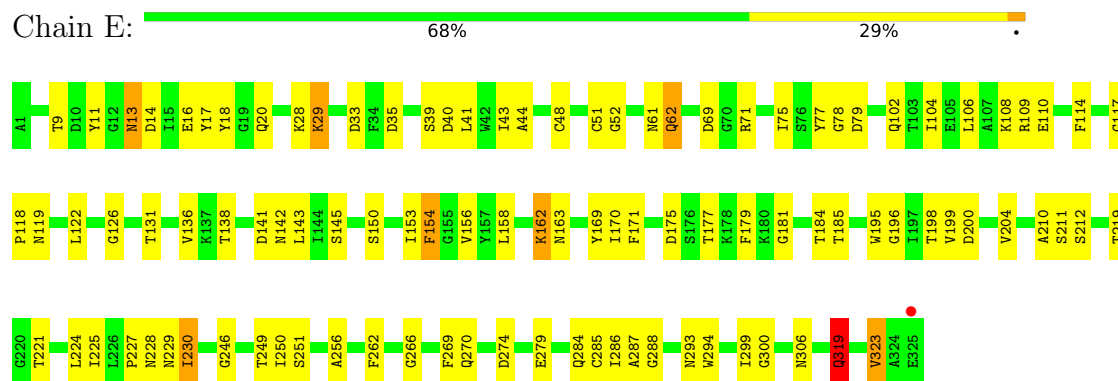
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	E	308	Total	O	0	0
			308	308		
3	I	4	Total	O	0	0
			4	4		

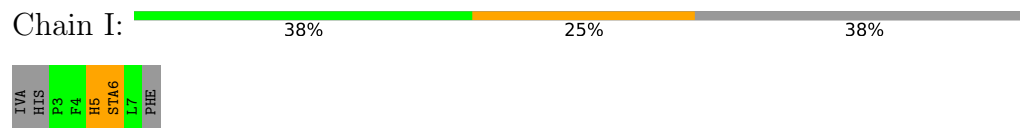
3 Residue-property plots

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: RHIZOPUSPEPSIN



• Molecule 2: PEPSTATIN-LIKE RENIN INHIBITOR



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	60.39Å 60.61Å 106.90Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	7.00 – 2.50 7.00 – 2.50	Depositor EDS
% Data completeness (in resolution range)	(Not available) (7.00-2.50) 86.8 (7.00-2.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$	-	Xtriage
Refinement program	PROLSQ	Depositor
R, R_{free}	0.154 , (Not available) 0.146 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	21.9	Xtriage
Anisotropy	0.123	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 97.0	EDS
L-test for twinning ¹	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.024 for k,h,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	2776	wwPDB-VP
Average B, all atoms (Å ²)	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.30% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Theoretical 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: STA

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	E	1.08	5/2488 (0.2%)	2.12	98/3381 (2.9%)
2	I	0.86	0/37	1.87	1/47 (2.1%)
All	All	1.08	5/2525 (0.2%)	2.12	99/3428 (2.9%)

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
2	I	0	2

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	228	ASN	CG-OD1	5.83	1.34	1.23
1	E	13	ASN	CG-OD1	5.68	1.34	1.23
1	E	102	GLN	CD-OE1	5.21	1.33	1.23
1	E	319	GLN	CD-NE2	-5.06	1.22	1.33
1	E	142	ASN	CG-OD1	5.05	1.33	1.23

All (99) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	62	GLN	OE1-CD-NE2	13.96	136.56	122.60
1	E	13	ASN	OD1-CG-ND2	9.54	132.14	122.60
1	E	13	ASN	N-CA-CB	8.78	122.42	110.57
1	E	274	ASP	CA-CB-CG	8.59	121.19	112.60
1	E	62	GLN	CG-CD-NE2	-8.18	104.13	116.40
1	E	285	CYS	O-C-N	7.75	132.44	123.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	118	PRO	CA-C-N	7.75	135.32	122.07
1	E	118	PRO	C-N-CA	7.75	135.32	122.07
1	E	43	ILE	CA-C-N	7.58	131.51	120.82
1	E	43	ILE	C-N-CA	7.58	131.51	120.82
1	E	262	PHE	CA-CB-CG	7.49	121.28	113.80
1	E	300	GLY	CA-C-O	-7.33	114.55	122.47
1	E	196	GLY	CA-C-O	7.19	126.59	120.76
1	E	270	GLN	CA-C-O	6.95	129.64	121.58
1	E	212	SER	O-C-N	6.85	131.30	122.87
1	E	199	VAL	N-CA-C	-6.79	98.65	108.36
1	E	154	PHE	CA-CB-CG	6.79	120.59	113.80
1	E	35	ASP	N-CA-CB	-6.76	99.96	110.65
1	E	169	TYR	CA-C-O	-6.64	113.67	120.71
1	E	153	ILE	N-CA-C	6.60	119.84	108.95
1	E	156	VAL	N-CA-C	6.53	117.29	107.75
1	E	221	THR	CA-C-N	6.48	128.87	120.44
1	E	221	THR	C-N-CA	6.48	128.87	120.44
1	E	33	ASP	CA-CB-CG	6.48	119.08	112.60
1	E	35	ASP	N-CA-C	6.37	119.17	108.02
1	E	48	CYS	O-C-N	6.32	130.43	123.04
1	E	175	ASP	CA-CB-CG	6.25	118.85	112.60
1	E	119	ASN	CB-CA-C	-6.17	98.95	109.51
1	E	52	GLY	CA-C-O	-6.14	115.26	121.90
1	E	288	GLY	CA-C-N	6.05	132.31	122.81
1	E	288	GLY	C-N-CA	6.05	132.31	122.81
1	E	77	TYR	CA-C-N	6.03	127.67	120.14
1	E	77	TYR	C-N-CA	6.03	127.67	120.14
1	E	143	LEU	CA-C-O	5.95	126.85	120.55
1	E	269	PHE	CA-CB-CG	-5.92	107.88	113.80
1	E	75	ILE	CA-C-O	5.91	127.54	121.28
1	E	270	GLN	N-CA-C	5.90	118.38	109.41
1	E	126	GLY	N-CA-C	-5.90	103.56	112.41
1	E	284	GLN	CB-CG-CD	5.86	122.56	112.60
1	E	154	PHE	CA-C-N	5.84	127.74	122.20
1	E	154	PHE	C-N-CA	5.84	127.74	122.20
1	E	284	GLN	OE1-CD-NE2	-5.84	116.76	122.60
1	E	200	ASP	CA-CB-CG	5.78	118.38	112.60
1	E	18	TYR	CA-C-N	5.77	126.54	121.58
1	E	18	TYR	C-N-CA	5.77	126.54	121.58
1	E	14	ASP	N-CA-CB	-5.75	103.19	111.70
1	E	156	VAL	CA-C-N	5.74	131.09	123.00
1	E	156	VAL	C-N-CA	5.74	131.09	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	285	CYS	CA-C-O	-5.72	114.15	120.38
1	E	246	GLY	N-CA-C	-5.68	107.53	114.92
1	E	199	VAL	O-C-N	5.67	129.33	123.03
1	E	13	ASN	CB-CA-C	-5.67	103.18	112.03
1	E	61	ASN	N-CA-C	5.67	119.30	112.38
1	E	122	LEU	CA-C-O	-5.66	114.49	121.11
1	E	158	LEU	CA-C-O	-5.63	114.27	120.30
1	E	142	ASN	OD1-CG-ND2	-5.62	116.98	122.60
1	E	224	LEU	N-CA-C	-5.58	98.65	108.20
1	E	114	PHE	N-CA-C	-5.58	104.59	111.40
1	E	62	GLN	CB-CG-CD	-5.57	103.13	112.60
1	E	249	THR	N-CA-CB	5.57	119.50	110.43
1	E	219	THR	CA-CB-OG1	-5.56	101.26	109.60
1	E	195	TRP	CA-C-N	5.49	126.89	121.62
1	E	195	TRP	C-N-CA	5.49	126.89	121.62
1	E	181	GLY	CA-C-N	5.47	131.42	122.07
1	E	181	GLY	C-N-CA	5.47	131.42	122.07
1	E	136	VAL	CA-C-N	5.46	129.67	122.30
1	E	136	VAL	C-N-CA	5.46	129.67	122.30
1	E	212	SER	N-CA-CB	5.43	118.03	109.83
1	E	229	ASN	CA-CB-CG	5.40	118.00	112.60
1	E	185	THR	CA-CB-OG1	-5.39	101.51	109.60
1	E	108	LYS	N-CA-C	-5.38	106.84	113.41
1	E	44	ALA	N-CA-C	-5.34	102.14	110.10
1	E	71	ARG	NE-CZ-NH1	-5.33	116.17	121.50
1	E	138	THR	CA-CB-OG1	-5.33	101.61	109.60
1	E	69	ASP	CA-CB-CG	5.32	117.92	112.60
1	E	131	THR	N-CA-C	-5.31	102.53	110.23
1	E	40	ASP	CA-CB-CG	5.30	117.91	112.60
1	E	177	THR	CA-C-N	5.30	131.92	122.06
1	E	177	THR	C-N-CA	5.30	131.92	122.06
1	E	28	LYS	O-C-N	5.27	129.72	123.24
1	E	117	GLY	O-C-N	5.25	127.43	122.18
2	I	5	HIS	N-CA-CB	5.24	119.41	110.50
1	E	230	ILE	O-C-N	5.24	126.95	121.87
1	E	266	GLY	N-CA-C	5.23	121.72	114.92
1	E	141	ASP	CA-C-O	-5.22	115.34	120.82
1	E	198	THR	CA-CB-OG1	-5.22	101.77	109.60
1	E	211[A]	SER	N-CA-CB	5.18	119.05	110.14
1	E	211[B]	SER	N-CA-CB	5.18	119.05	110.14
1	E	109	ARG	CD-NE-CZ	5.17	131.64	124.40
1	E	171	PHE	CA-CB-CG	-5.16	108.64	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	136	VAL	CA-C-O	5.13	126.51	120.71
1	E	78	GLY	CA-C-O	-5.13	114.86	120.40
1	E	204	VAL	N-CA-CB	5.12	118.66	112.10
1	E	299	ILE	CA-C-N	5.12	129.03	121.96
1	E	299	ILE	C-N-CA	5.12	129.03	121.96
1	E	14	ASP	O-C-N	5.12	128.90	122.55
1	E	179	PHE	CA-CB-CG	5.12	118.92	113.80
1	E	122	LEU	O-C-N	5.04	129.43	123.24
1	E	286	ILE	CA-C-O	-5.03	115.03	120.71

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	I	6	STA	Peptide,Mainchain

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	E	2417	0	2331	20	0
2	I	47	0	48	1	0
3	E	308	0	0	3	0
3	I	4	0	0	0	0
All	All	2776	0	2379	20	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 4.

All (20) 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:210:ALA:HB2	1:E:230:ILE:HG23	1.71	0.72
1:E:162:LYS:NZ	1:E:163:ASN:HD21	1.93	0.67
1:E:13:ASN:OD1	1:E:279:GLU:HG3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:227:PRO:HD2	1:E:230:ILE:HD12	1.96	0.48
1:E:294:TRP:HB2	3:E:699:HOH:O	2.13	0.48
1:E:79:ASP:HB3	2:I:5:HIS:HB3	1.97	0.47
1:E:306:ASN:O	1:E:323:VAL:HG22	2.15	0.47
1:E:184:THR:O	1:E:319:GLN:HA	2.15	0.46
1:E:256:ALA:HB2	3:E:664:HOH:O	2.15	0.45
1:E:20:GLN:HE22	1:E:29:LYS:HD3	1.81	0.45
1:E:162:LYS:HG3	1:E:163:ASN:ND2	2.32	0.44
1:E:11:TYR:HB3	1:E:16:GLU:HG3	2.01	0.43
1:E:51:CYS:HA	1:E:110:GLU:OE2	2.19	0.43
1:E:104:ILE:HD12	1:E:106:LEU:HD21	2.00	0.42
1:E:162:LYS:HZ1	1:E:163:ASN:HD21	1.65	0.42
1:E:154:PHE:HA	1:E:170:ILE:O	2.20	0.41
1:E:250:ILE:HB	1:E:287:ALA:HB2	2.03	0.41
1:E:294:TRP:HE3	3:E:699:HOH:O	2.03	0.41
1:E:9:THR:O	1:E:17:TYR:HA	2.21	0.40
1:E:225:ILE:HG21	1:E:294:TRP:HZ3	1.85	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	E	327/325 (101%)	324 (99%)	3 (1%)	0	100	100
2	I	2/8 (25%)	1 (50%)	1 (50%)	0	100	100
All	All	329/333 (99%)	325 (99%)	4 (1%)	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	E	259/255 (102%)	248 (96%)	11 (4%)	26	52
2	I	4/6 (67%)	4 (100%)	0	100	100
All	All	263/261 (101%)	252 (96%)	11 (4%)	26	52

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	29	LYS
1	E	39	SER
1	E	41	LEU
1	E	62	GLN
1	E	145	SER
1	E	150	SER
1	E	162	LYS
1	E	251	SER
1	E	293	ASN
1	E	319	GLN
1	E	323	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	E	20	GLN
1	E	119	ASN
1	E	163	ASN
1	E	228	ASN
1	E	243	ASN
1	E	270	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

1 non-standard protein/DNA/RNA residue 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	STA	I	6	2	10,10,11	0.76	0	9,12,14	1.75	2 (22%)

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	STA	I	6	2	-	4/11/11/12	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	6	STA	CG-CB-CA	3.71	123.75	115.76
2	I	6	STA	CH-CM-C	-2.66	108.49	113.02

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	I	6	STA	N-CA-CB-CG
2	I	6	STA	CH-CA-CB-CG
2	I	6	STA	CA-CB-CG-CD1
2	I	6	STA	O-C-CM-CH

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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	E	325/325 (100%)	-0.97	1 (0%) 90 87	3, 11, 24, 39	4 (1%)
2	I	4/8 (50%)	-0.28	0 100 100	26, 31, 31, 32	0
All	All	329/333 (98%)	-0.97	1 (0%) 90 87	3, 11, 25, 39	4 (1%)

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	325	GLU	2.4

6.2 Non-standard residues in protein, DNA, RNA chains [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
2	STA	I	6	11/12	0.94	0.08	24,25,28,29	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.