



Full wwPDB X-ray Structure Validation Report ⓘ

May 26, 2020 – 08:50 am BST

PDB ID : 1VR1
Title : Specificity for Plasminogen Activator Inhibitor-1
Authors : Dekker, R.J.; Eichinger, A.; Stoop, A.A.; Bode, W.; Pannekoek, H.; Horrevoets, A.J.G.
Deposited on : 1998-12-11
Resolution : 1.90 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 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)
Xtrriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

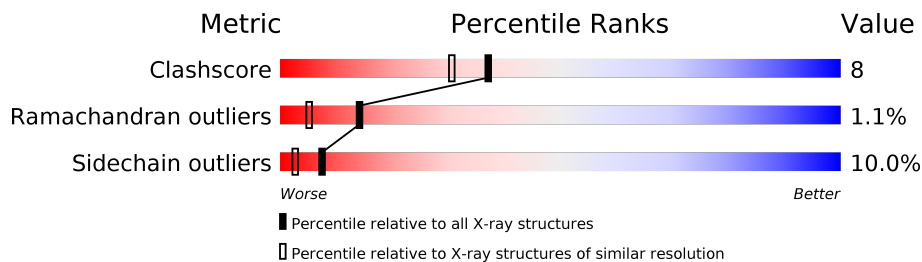
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)

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 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 $\leq 5\%$

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	L	27	
2	H	261	
3	I	10	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 2398 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 thrombin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	L	27	222	140	36	45	1	11	0	0

- Molecule 2 is a protein called thrombin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	H	247	2001	1277	355	355	14	33	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	35	ALA	-	gap in sws P00734	UNP P00734
H	36	LYS	-	gap in sws P00734	UNP P00734
H	37	HIS	-	gap in sws P00734	UNP P00734
H	37B	ARG	LYS	CONFLICT	UNP P00734
H	37E	GLY	GLN	CONFLICT	UNP P00734
H	39	ARG	-	gap in sws P00734	UNP P00734
H	40	PHE	LEU	CONFLICT	UNP P00734
H	184	TYR	GLY	CONFLICT	UNP P00734

- Molecule 3 is a protein called Hirudin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	I	10	94	59	10	24	1	2	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	L	8	Total	O	0	0
			8	8		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	H	70	Total	O	0	0
			70	70		
4	I	3	Total	O	0	0
			3	3		

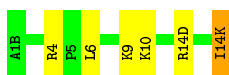
3 Residue-property plots [i](#)

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. 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. 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.

Note EDS was not executed.

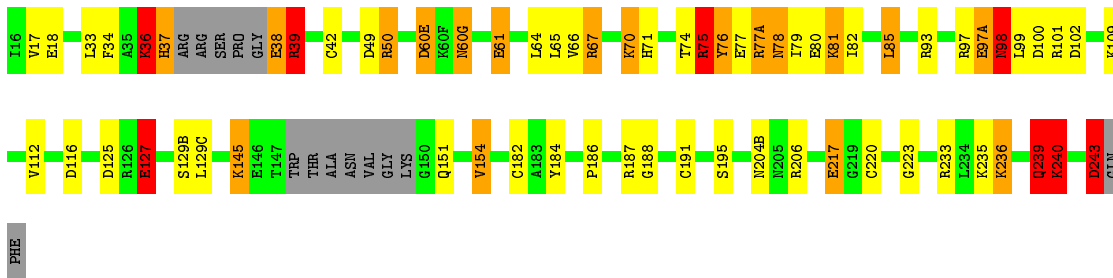
- Molecule 1: thrombin

Chain L:  78% 19%



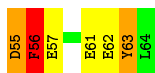
- Molecule 2: thrombin

Chain H:  69% 16% 7% 5%



- Molecule 3: Hirudin

Chain I:  40% 30% 20% 10%



4 Data and refinement statistics

Xtrriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	70.88Å 71.96Å 73.04Å 90.00° 100.65° 90.00°	Depositor
Resolution (Å)	19.90 – 1.90	Depositor
% Data completeness (in resolution range)	92.2 (19.90-1.90)	Depositor
R_{merge}	0.09	Depositor
R_{sym}	0.09	Depositor
Refinement program	REFMAC	Depositor
R, R_{free}	0.204 , 0.256	Depositor
Estimated twinning fraction	No twinning to report.	Xtrriage
Total number of atoms	2398	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

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: TYS

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	L	1.14	2/224 (0.9%)	1.62	4/298 (1.3%)
2	H	1.97	20/2052 (1.0%)	2.13	56/2770 (2.0%)
3	I	0.92	0/78	1.62	2/103 (1.9%)
All	All	1.88	22/2354 (0.9%)	2.08	62/3171 (2.0%)

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	L	1	0
2	H	0	13
3	I	0	1
All	All	1	14

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	97(A)	GLU	CB-CG	-36.71	0.82	1.52
2	H	50	ARG	CZ-NH2	34.11	1.77	1.33
2	H	97(A)	GLU	CD-OE2	-29.77	0.93	1.25
2	H	97(A)	GLU	CD-OE1	29.29	1.57	1.25
2	H	50	ARG	CZ-NH1	27.28	1.68	1.33
2	H	60(E)	ASP	CG-OD2	24.14	1.80	1.25
2	H	97(A)	GLU	CG-CD	18.71	1.80	1.51
2	H	50	ARG	NE-CZ	-18.09	1.09	1.33
2	H	217	GLU	CG-CD	13.50	1.72	1.51
2	H	74	THR	C-N	-9.93	1.11	1.34
1	L	14(K)	ILE	CB-CG2	-9.76	1.22	1.52
2	H	60(E)	ASP	CG-OD1	-8.77	1.05	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	10	LYS	CE-NZ	-8.72	1.27	1.49
2	H	39	ARG	C-N	6.81	1.49	1.34
2	H	33	LEU	CG-CD2	6.75	1.76	1.51
2	H	70	LYS	C-N	-6.73	1.18	1.34
2	H	145	LYS	CG-CD	6.21	1.73	1.52
2	H	109	LYS	CE-NZ	-5.59	1.35	1.49
2	H	76	TYR	C-N	5.51	1.46	1.34
2	H	236	LYS	CG-CD	5.48	1.71	1.52
2	H	33	LEU	CG-CD1	-5.25	1.32	1.51
2	H	77(A)	ARG	C-N	5.11	1.45	1.34

All (62) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	60(E)	ASP	CB-CG-OD1	38.47	152.92	118.30
2	H	50	ARG	NH1-CZ-NH2	-31.68	84.55	119.40
2	H	50	ARG	NE-CZ-NH2	-26.15	107.22	120.30
2	H	50	ARG	NE-CZ-NH1	24.25	132.43	120.30
2	H	60(E)	ASP	CB-CG-OD2	-21.91	98.58	118.30
2	H	78	ASN	O-C-N	-17.05	95.41	122.70
2	H	39	ARG	CA-C-N	-16.11	81.76	117.20
2	H	36	LYS	O-C-N	-14.51	99.49	122.70
2	H	33	LEU	CB-CG-CD1	14.25	135.22	111.00
2	H	236	LYS	CB-CG-CD	13.57	146.89	111.60
2	H	60(E)	ASP	OD1-CG-OD2	-12.32	99.89	123.30
2	H	243	ASP	CB-CA-C	12.15	134.71	110.40
2	H	97(A)	GLU	CA-CB-CG	12.10	140.01	113.40
2	H	97(A)	GLU	CB-CG-CD	11.53	145.33	114.20
2	H	77(A)	ARG	CA-C-N	-11.08	92.82	117.20
2	H	76	TYR	C-N-CA	-10.85	94.59	121.70
2	H	93	ARG	NE-CZ-NH2	-10.65	114.98	120.30
2	H	217	GLU	CG-CD-OE2	-10.27	97.75	118.30
1	L	14(K)	ILE	CA-CB-CG2	9.99	130.87	110.90
2	H	75	ARG	O-C-N	-9.92	106.83	122.70
2	H	93	ARG	CD-NE-CZ	9.73	137.22	123.60
2	H	36	LYS	CA-C-N	9.19	137.41	117.20
2	H	151	GLN	CG-CD-OE1	-9.13	103.34	121.60
2	H	74	THR	C-N-CA	9.03	144.28	121.70
2	H	50	ARG	CD-NE-CZ	8.46	135.45	123.60
2	H	97(A)	GLU	CG-CD-OE1	-8.25	101.80	118.30
2	H	206	ARG	NE-CZ-NH2	-8.02	116.29	120.30
1	L	14(D)	ARG	CD-NE-CZ	7.40	133.96	123.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	55	ASP	C-N-CA	7.37	140.13	121.70
2	H	101	ARG	NE-CZ-NH1	7.37	123.98	120.30
2	H	75	ARG	NE-CZ-NH2	7.32	123.96	120.30
2	H	239	GLN	CG-CD-NE2	-7.27	99.25	116.70
2	H	49	ASP	CB-CG-OD1	7.26	124.84	118.30
2	H	67	ARG	NE-CZ-NH2	-7.16	116.72	120.30
2	H	98	ASN	N-CA-C	7.16	130.32	111.00
2	H	77(A)	ARG	NE-CZ-NH2	6.80	123.70	120.30
2	H	80	GLU	N-CA-CB	6.76	122.77	110.60
2	H	39	ARG	NE-CZ-NH2	6.76	123.68	120.30
2	H	98	ASN	N-CA-CB	-6.70	98.55	110.60
2	H	61	GLU	CA-CB-CG	6.68	128.10	113.40
2	H	74	THR	O-C-N	-6.53	112.25	122.70
2	H	125	ASP	CB-CG-OD1	6.39	124.05	118.30
2	H	116	ASP	CB-CG-OD1	6.30	123.97	118.30
2	H	240	LYS	CA-CB-CG	6.27	127.19	113.40
2	H	98	ASN	CA-CB-CG	-6.07	100.04	113.40
2	H	80	GLU	CA-CB-CG	6.06	126.74	113.40
2	H	109	LYS	CD-CE-NZ	6.05	125.62	111.70
3	I	56	PHE	N-CA-CB	5.95	121.31	110.60
1	L	4	ARG	NE-CZ-NH2	-5.81	117.39	120.30
2	H	78	ASN	C-N-CA	5.80	136.19	121.70
2	H	154	VAL	N-CA-CB	-5.79	98.77	111.50
1	L	10	LYS	CD-CE-NZ	5.75	124.93	111.70
2	H	195	SER	CB-CA-C	-5.72	99.23	110.10
2	H	66	VAL	CA-CB-CG1	5.67	119.40	110.90
2	H	80	GLU	CG-CD-OE2	-5.45	107.41	118.30
2	H	76	TYR	CA-C-N	-5.35	105.43	117.20
2	H	39	ARG	O-C-N	-5.32	114.19	122.70
2	H	80	GLU	CG-CD-OE1	5.25	128.79	118.30
2	H	151	GLN	CG-CD-NE2	5.24	129.28	116.70
2	H	75	ARG	CA-C-N	5.17	128.57	117.20
2	H	127	GLU	CA-CB-CG	5.12	124.67	113.40
2	H	97	ARG	NE-CZ-NH2	-5.04	117.78	120.30

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	L	14(K)	ILE	CB

All (14) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	H	127	GLU	Sidechain
2	H	217	GLU	Sidechain
2	H	239	GLN	Sidechain
2	H	36	LYS	Mainchain,Peptide
2	H	39	ARG	Mainchain
2	H	50	ARG	Sidechain
2	H	60(E)	ASP	Sidechain
2	H	70	LYS	Mainchain
2	H	75	ARG	Mainchain
2	H	77(A)	ARG	Mainchain
2	H	78	ASN	Mainchain
2	H	97(A)	GLU	Sidechain
3	I	63	TYS	Peptide

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	L	222	0	225	0	0
2	H	2001	0	1975	29	5
3	I	94	0	72	2	1
4	H	70	0	0	2	0
4	I	3	0	0	0	1
4	L	8	0	0	0	0
All	All	2398	0	2272	31	5

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 8.

All (31) 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)
2:H:37:HIS:CD2	2:H:37:HIS:H	1.87	0.88
2:H:191:CYS:HG	2:H:220:CYS:HG	0.81	0.79
2:H:243:ASP:HA	4:H:311:HOH:O	1.91	0.70
2:H:34:PHE:CZ	2:H:38:GLU:HB2	2.27	0.69
2:H:235:LYS:HE2	2:H:239:GLN:HE21	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:55:ASP:CG	3:I:56:PHE:H	1.99	0.67
2:H:235:LYS:HE2	2:H:239:GLN:NE2	2.11	0.65
2:H:37:HIS:CD2	2:H:37:HIS:N	2.64	0.63
2:H:98:ASN:HB3	2:H:100:ASP:H	1.64	0.62
2:H:71:HIS:HD2	4:H:281:HOH:O	1.83	0.62
2:H:34:PHE:CE2	2:H:38:GLU:HB3	2.40	0.57
2:H:34:PHE:CZ	2:H:38:GLU:CB	2.90	0.53
2:H:37:HIS:ND1	2:H:38:GLU:HG2	2.24	0.51
2:H:39:ARG:HB2	2:H:39:ARG:NH1	2.26	0.50
2:H:37:HIS:HD2	2:H:37:HIS:H	1.51	0.47
2:H:18:GLU:HG3	2:H:187:ARG:HG3	1.96	0.47
2:H:67:ARG:HG2	2:H:82:ILE:HG12	1.96	0.46
2:H:99:LEU:O	2:H:102:ASP:HB2	2.16	0.46
2:H:81:LYS:HG2	2:H:112:VAL:HG23	1.97	0.45
2:H:39:ARG:CB	2:H:39:ARG:HH11	2.29	0.45
2:H:240:LYS:O	2:H:243:ASP:HB3	2.17	0.44
2:H:98:ASN:O	2:H:99:LEU:HB2	2.18	0.44
2:H:17:VAL:O	2:H:188:GLY:HA2	2.17	0.43
2:H:60(G):ASN:C	2:H:60(G):ASN:HD22	2.23	0.42
2:H:36:LYS:HB3	2:H:65:LEU:HG	2.01	0.42
2:H:186:PRO:HG3	2:H:223:GLY:H	1.84	0.42
2:H:71:HIS:N	2:H:77:GLU:OE2	2.53	0.42
3:I:63:TYS:HE2	3:I:63:TYS:O3	2.19	0.41
2:H:36:LYS:O	2:H:36:LYS:HG3	2.20	0.41
2:H:64:LEU:HB2	2:H:85:LEU:HD23	2.02	0.41
2:H:38:GLU:O	2:H:39:ARG:HB3	2.21	0.40

All (5) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:75:ARG:NH2	2:H:76:TYR:O[2_555]	0.97	1.23
2:H:75:ARG:NH2	2:H:76:TYR:C[2_555]	1.47	0.73
2:H:75:ARG:CG	2:H:75:ARG:NE[2_555]	1.99	0.21
2:H:75:ARG:NH1	3:I:57:GLU:OE1[2_555]	2.01	0.19
2:H:75:ARG:CD	4:I:67:HOH:O[2_555]	2.01	0.19

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	L	25/27 (93%)	24 (96%)	1 (4%)	0	100	100
2	H	241/261 (92%)	229 (95%)	10 (4%)	2 (1%)	19	9
3	I	7/10 (70%)	5 (71%)	1 (14%)	1 (14%)	0	0
All	All	273/298 (92%)	258 (94%)	12 (4%)	3 (1%)	14	5

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	H	184	TYR
3	I	56	PHE
2	H	79	ILE

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	L	25/25 (100%)	22 (88%)	3 (12%)	5	1
2	H	215/227 (95%)	195 (91%)	20 (9%)	9	3
3	I	9/9 (100%)	7 (78%)	2 (22%)	1	0
All	All	249/261 (95%)	224 (90%)	25 (10%)	7	3

All (25) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L	6	LEU
1	L	9	LYS
1	L	14(K)	ILE
2	H	37	HIS
2	H	38	GLU
2	H	39	ARG
2	H	42	CYS
2	H	60(G)	ASN
2	H	61	GLU
2	H	81	LYS
2	H	85	LEU
2	H	98	ASN
2	H	127	GLU
2	H	129(B)	SER
2	H	129(C)	LEU
2	H	145	LYS
2	H	154	VAL
2	H	182	CYS
2	H	204(B)	ASN
2	H	233	ARG
2	H	236	LYS
2	H	240	LYS
2	H	243	ASP
3	I	61	GLU
3	I	62	GLU

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

Mol	Chain	Res	Type
2	H	37	HIS
2	H	60(G)	ASN
2	H	71	HIS
2	H	78	ASN
2	H	98	ASN
2	H	204(B)	ASN
2	H	239	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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
3	TYS	I	63	3	15,16,17	2.23	3 (20%)	18,22,24	2.39	4 (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
3	TYS	I	63	3	-	0/10/11/13	0/1/1/1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	63	TYS	OH-S	-6.84	1.47	1.58
3	I	63	TYS	OH-CZ	-3.77	1.36	1.42
3	I	63	TYS	CB-CA	2.41	1.58	1.53

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	63	TYS	CG-CB-CA	-5.73	102.51	114.10
3	I	63	TYS	OH-S-O2	5.48	123.69	107.71
3	I	63	TYS	OH-S-O1	-5.25	92.40	107.71
3	I	63	TYS	O3-S-OH	2.32	111.42	105.83

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	I	63	TYS	1	0

5.5 Carbohydrates [i](#)

There are no carbohydrates 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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	H	2
3	I	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	H	70:LYS	C	71:HIS	N	1.18
1	I	63:TYS	C	64:LEU	N	1.12
1	H	74:THR	C	75:ARG	N	1.11

6 Fit of model and data

6.1 Protein, DNA and RNA chains

EDS was not executed - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

6.4 Ligands

EDS was not executed - this section is therefore empty.

6.5 Other polymers

EDS was not executed - this section is therefore empty.