



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 25, 2026 – 12:46 AM UTC

PDB ID : 4GLN / pdb_00004gln
Title : Crystal Structure of Chemically Synthesized Heterochiral {D-Protein Antagonist plus VEGF-A} Protein Complex in space group P21/n
Authors : Mandal, K.; Uppalapati, M.; Ault-Riche, D.; Kenney, J.; Lowitz, J.; Sidhu, S.; Kent, S.B.H.
Deposited on : 2012-08-14
Resolution : 1.60 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
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

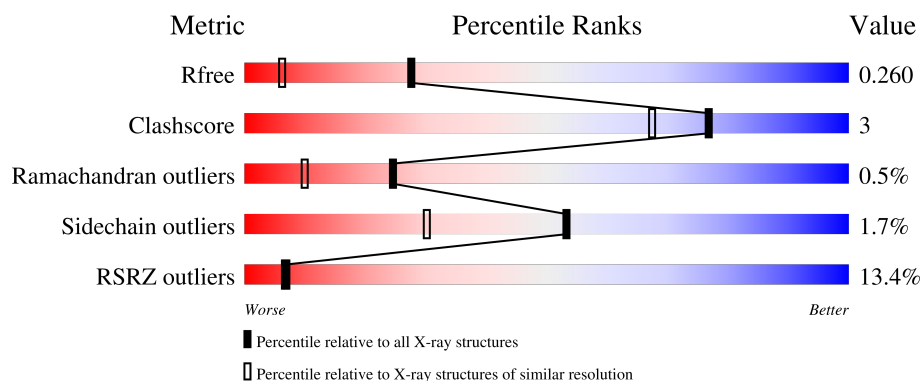
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.60 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	4673 (1.60-1.60)
Clashscore	190562	4931 (1.60-1.60)
Ramachandran outliers	187476	4831 (1.60-1.60)
Sidechain outliers	187428	4830 (1.60-1.60)
RSRZ outliers	180081	4672 (1.60-1.60)

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	D	56	 95% 5%
1	H	56	 96% .
2	E	102	 15% 82% 11% 7%
2	F	102	 11% 84% 9% 7%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3060 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 (with D amino acids) called D-RFX001.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
1	D	56	Total	C	N	O	0	4	0
			470	305	65	100			
1	H	56	Total	C	N	O	0	6	0
			485	316	65	104			

- Molecule 2 is a protein called Vascular endothelial growth factor A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	E	95	Total	C	N	O	S	0	4	0
			781	493	129	146	13			
2	F	95	Total	C	N	O	S	0	6	0
			800	501	134	151	14			

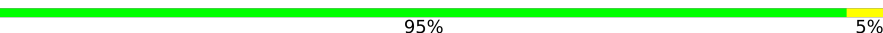
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	D	126	Total	O	0	0
			126	126		
3	E	132	Total	O	0	0
			132	132		
3	F	167	Total	O	0	0
			167	167		
3	H	99	Total	O	0	0
			99	99		

3 Residue-property plots [i](#)

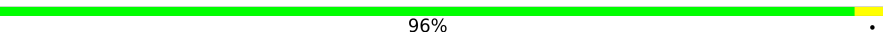
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: D-RFX001

Chain D: 



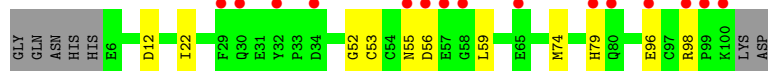
- Molecule 1: D-RFX001

Chain H: 



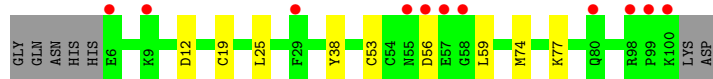
- Molecule 2: Vascular endothelial growth factor A

Chain E: 



- Molecule 2: Vascular endothelial growth factor A

Chain F: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21/n 1	Depositor
Cell constants a, b, c, α , β , γ	57.16Å 88.32Å 77.87Å 90.00° 99.98° 90.00°	Depositor
Resolution (Å)	32.22 – 1.60 32.22 – 1.60	Depositor EDS
% Data completeness (in resolution range)	97.9 (32.22-1.60) 94.6 (32.22-1.60)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$	-	Xtrriage
Refinement program	PHENIX (phenix.refine: dev_1128)	Depositor
R, R_{free}	0.229 , 0.264 0.228 , 0.260	Depositor DCC
R_{free} test set	4799 reflections (4.86%)	wwPDB-VP
Wilson B-factor (Å ²)	(Not available)	Xtrriage
Anisotropy	(Not available)	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 44.7	EDS
L-test for twinning ¹	$\langle L \rangle =$ (Not available), $\langle L^2 \rangle =$ (Not available)	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3060	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *(Not available)*

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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: DTR, DSN, DAL, DIL, DTH, DLY, DAS, DVA, DTY, DSG, DLE, DGL, DPN

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	D	0.25	0/6	0.26	0/4
1	H	0.33	0/6	0.18	0/4
2	E	0.35	0/811	0.69	0/1094
2	F	0.34	0/838	0.64	0/1129
All	All	0.35	0/1661	0.66	0/2231

There are no bond length outliers.

There are no bond angle outliers.

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	D	470	0	391	3	0
1	H	485	0	404	2	0
2	E	781	0	750	8	0
2	F	800	0	759	6	0
3	D	126	0	0	0	0
3	E	132	0	0	1	0
3	F	167	0	0	2	1
3	H	99	0	0	0	0
All	All	3060	0	2304	14	1

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 (14) 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:E:96:GLU:OE1	2:E:98:ARG:NH1	2.15	0.79
2:E:12[B]:ASP:OD2	3:E:324:HOH:O	2.04	0.75
2:E:22[A]:ILE:HD13	2:F:25:LEU:HD12	1.79	0.64
1:D:30:DPN:HE2	2:F:74[B]:MET:SD	2.48	0.54
2:F:38:TYR:CE2	2:F:77:LYS:HG3	2.47	0.49
2:E:74:MET:SD	1:H:30:DPN:HE1	2.58	0.43
1:D:27:DAS:OD1	2:E:55:ASN:ND2	2.52	0.43
2:E:56:ASP:HB3	2:E:59:LEU:HG	2.00	0.43
2:F:56:ASP:HB3	2:F:59:LEU:HG	2.01	0.42
2:E:52:GLY:CA	2:F:25:LEU:HD13	2.49	0.42
2:F:12[A]:ASP:OD1	3:F:366:HOH:O	2.22	0.41
2:E:22[A]:ILE:HD11	3:F:233:HOH:O	2.22	0.40
1:D:11:DLE:HD12	1:D:11:DLE:C	2.52	0.40

All (1) 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)
3:F:303:HOH:O	3:F:321:HOH:O[3_656]	2.17	0.03

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	D	2/56 (4%)	2 (100%)	0	0	100	100
1	H	2/56 (4%)	2 (100%)	0	0	100	100
2	E	97/102 (95%)	94 (97%)	3 (3%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	F	100/102 (98%)	98 (98%)	1 (1%)	1 (1%)	12	3
All	All	201/316 (64%)	196 (98%)	4 (2%)	1 (0%)	24	10

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	F	19	CYS

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	
2	E	92/96 (96%)	90 (98%)	2 (2%)	45	22
2	F	96/96 (100%)	95 (99%)	1 (1%)	68	50
All	All	188/192 (98%)	185 (98%)	3 (2%)	53	33

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	E	53	CYS
2	E	79	HIS
2	F	53	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
2	E	68	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

118 non-standard protein/DNA/RNA residues are modelled in this entry.

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.

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 ⓘ

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	D	2/56 (3%)	-0.64	0	100 100	10, 10, 10, 14	0
1	H	2/56 (3%)	-0.63	0	100 100	11, 11, 11, 20	0
2	E	95/102 (93%)	0.75	15 (15%)	5 4	8, 17, 42, 54	4 (4%)
2	F	95/102 (93%)	0.34	11 (11%)	9 9	6, 13, 30, 51	7 (7%)
All	All	194/316 (61%)	0.52	26 (13%)	7 7	6, 15, 39, 54	11 (5%)

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	E	79	HIS	7.7
2	E	55	ASN	6.4
2	E	58	GLY	4.1
2	F	98	ARG	4.1
2	F	80	GLN	4.0
2	F	6	GLU	3.9
2	F	58	GLY	3.9
2	F	56	ASP	3.8
2	E	100	LYS	3.8
2	E	32	TYR	3.6
2	E	80	GLN	3.6
2	E	65	GLU	3.3
2	E	30	GLN	3.3
2	E	29	PHE	3.2
2	E	99	PRO	3.1
2	F	29	PHE	3.0
2	F	100	LYS	2.8
2	E	56	ASP	2.8
2	F	9	LYS	2.7
2	E	34	ASP	2.6
2	E	96	GLU	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	E	98	ARG	2.5
2	E	57	GLU	2.5
2	F	99	PRO	2.5
2	F	55	ASN	2.1
2	F	57	GLU	2.0

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
1	DVA	D	22[A]	7/8	0.66	0.35	11,12,12,15	7
1	DVA	D	22[B]	7/8	0.66	0.35	11,13,15,18	7
1	DTH	H	10[A]	7/8	0.76	0.12	19,21,21,23	7
1	DTH	H	10[B]	7/8	0.76	0.12	22,25,28,29	7
1	DAS	D	27	8/9	0.80	0.20	12,14,26,27	0
1	DGL	D	18	9/10	0.85	0.14	14,18,30,30	0
1	DAS	H	27	8/9	0.85	0.17	12,15,28,31	0
1	DLY	H	9	9/10	0.86	0.17	22,26,41,43	0
1	DVA	H	20	7/8	0.86	0.13	20,22,25,27	0
1	DSG	H	7	8/9	0.87	0.11	12,15,25,30	0
1	DLY	D	12	9/10	0.87	0.14	12,14,31,33	0
1	DAS	H	39[A]	8/9	0.87	0.10	15,17,27,27	8
1	DAS	H	39[B]	8/9	0.87	0.10	15,16,22,23	8
1	DAS	H	46	8/9	0.87	0.13	16,21,32,34	0
1	DGL	H	56	10/10	0.87	0.10	16,21,27,31	0
1	DLY	D	9	9/10	0.88	0.12	15,20,30,34	0
1	DGL	D	14	9/10	0.88	0.15	9,13,21,23	0
1	DGL	H	18	9/10	0.89	0.12	14,18,24,26	0
1	DAS	H	21	8/9	0.90	0.09	16,20,22,26	0
1	DAS	D	47	8/9	0.90	0.12	11,13,23,24	0
1	DAS	H	47[A]	8/9	0.90	0.11	24,27,33,33	5
1	DAS	H	47[B]	8/9	0.90	0.11	24,27,35,37	5
1	DAS	H	41	8/9	0.90	0.12	13,16,29,30	0
1	DLY	H	12	9/10	0.91	0.10	11,13,25,26	0
1	DAL	H	48	5/6	0.91	0.09	26,27,28,30	0
1	DLY	H	50	9/10	0.91	0.11	13,17,33,34	0
1	DGL	D	56	10/10	0.91	0.10	12,17,21,21	0
1	DAS	D	39	8/9	0.91	0.12	12,14,23,26	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
1	DSG	H	36	8/9	0.92	0.07	14,15,17,18	0
1	DTH	D	1	7/8	0.92	0.09	14,17,19,19	0
1	DAS	H	24	8/9	0.92	0.10	12,13,21,22	0
1	DLY	D	3	9/10	0.92	0.12	8,9,20,20	0
1	DAL	H	19	5/6	0.92	0.09	16,18,20,22	0
1	DAS	D	42	8/9	0.92	0.09	9,10,15,17	0
1	DTY	H	32	12/13	0.92	0.08	11,12,14,16	0
1	DAS	H	42	8/9	0.93	0.07	13,14,17,19	0
1	DSN	H	35[B]	6/7	0.93	0.07	14,15,16,19	3
1	DTH	D	15[A]	7/8	0.93	0.09	9,10,13,20	4
1	DSN	D	38	6/7	0.93	0.07	12,12,15,18	0
1	DVA	D	20	7/8	0.93	0.09	19,21,25,25	0
1	DTH	D	15[B]	7/8	0.93	0.09	9,11,13,14	4
1	DTH	H	49	7/8	0.93	0.08	19,22,24,26	0
1	DTH	H	1	7/8	0.93	0.07	18,19,22,22	0
1	DLE	D	6	8/9	0.93	0.07	7,9,11,13	0
1	DSN	H	35[A]	6/7	0.93	0.07	14,15,18,19	3
1	DAS	D	21	8/9	0.94	0.07	13,16,19,21	0
1	DAS	D	24	8/9	0.94	0.07	12,13,20,21	0
1	DSN	H	38	6/7	0.94	0.07	16,16,20,23	0
1	DLY	D	50	9/10	0.94	0.07	9,10,15,18	0
1	DAL	H	33	5/6	0.94	0.06	10,11,11,12	0
1	DTH	H	53	7/8	0.94	0.07	10,11,13,13	0
1	DVA	H	54	7/8	0.94	0.08	10,12,13,13	0
1	DTH	D	16	7/8	0.94	0.06	10,11,14,14	0
1	DLY	H	3	9/10	0.94	0.08	10,11,23,25	0
1	DLE	H	11	8/9	0.95	0.06	13,16,17,17	0
1	DVA	H	22[A]	7/8	0.95	0.10	14,16,16,18	4
1	DSN	D	35[A]	6/7	0.95	0.06	11,13,15,16	1
1	DSN	D	35[B]	6/7	0.95	0.06	11,13,14,16	1
1	DVA	H	22[B]	7/8	0.95	0.10	14,16,17,20	4
1	DTH	H	16	7/8	0.95	0.06	10,12,13,14	0
1	DSG	D	36	8/9	0.95	0.06	11,11,13,13	0
1	DGL	H	14	9/10	0.95	0.09	9,10,16,17	0
1	DPN	H	37	11/12	0.95	0.07	15,16,20,21	0
1	DLE	H	4	8/9	0.95	0.06	9,10,11,11	0
1	DLE	D	11	8/9	0.95	0.07	13,14,15,16	0
1	DPN	D	29	11/12	0.95	0.06	8,9,10,10	0
1	DPN	H	29	11/12	0.95	0.06	9,10,10,11	0
1	DTH	D	55	7/8	0.95	0.07	9,11,16,16	0
1	DVA	H	31	7/8	0.95	0.07	12,13,17,18	0
1	DAS	D	41	8/9	0.95	0.08	10,11,21,25	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
1	DAL	D	33	5/6	0.96	0.05	9,9,10,10	0
1	DTY	H	2	12/13	0.96	0.05	12,13,16,18	0
1	DAL	H	34	5/6	0.96	0.05	11,12,14,16	0
1	DTH	H	17	7/8	0.96	0.06	10,13,14,15	0
1	DTR	D	43	14/15	0.96	0.05	7,9,13,13	0
1	DTR	H	43	14/15	0.96	0.06	12,12,15,16	0
1	DTH	D	44	7/8	0.96	0.06	8,8,10,10	0
1	DTH	H	44	7/8	0.96	0.06	12,13,15,16	0
1	DTY	H	45	12/13	0.96	0.06	13,14,17,18	0
1	DAL	D	25	5/6	0.96	0.05	9,9,10,11	0
1	DAL	H	25	5/6	0.96	0.06	11,11,11,12	0
1	DPN	D	26	11/12	0.96	0.06	10,11,13,14	0
1	DLE	H	6	8/9	0.96	0.07	10,12,18,21	0
1	DSG	D	7[A]	8/9	0.96	0.07	10,12,15,17	5
1	DPN	D	37	11/12	0.96	0.06	12,13,13,13	0
1	DVA	D	28	7/8	0.96	0.05	10,11,15,17	0
1	DVA	H	28	7/8	0.96	0.06	11,12,13,15	0
1	DPN	D	52	11/12	0.96	0.06	8,9,11,11	0
1	DTH	D	53	7/8	0.96	0.05	8,8,10,11	0
1	DAL	D	19	5/6	0.96	0.06	16,17,19,19	0
1	DTH	D	10	7/8	0.96	0.07	14,16,19,20	0
1	DSG	D	7[B]	8/9	0.96	0.07	10,12,17,17	5
1	DTH	H	55	7/8	0.96	0.06	11,14,16,16	0
1	DPN	H	23	11/12	0.96	0.05	12,13,18,18	0
1	DPN	H	40	11/12	0.96	0.05	11,12,13,15	0
1	DLE	D	4	8/9	0.97	0.05	7,8,9,10	0
1	DTY	D	2	12/13	0.97	0.05	10,11,13,14	0
1	DAL	D	48	5/6	0.97	0.04	10,10,12,12	0
1	DIL	D	5	8/9	0.97	0.06	7,8,10,12	0
1	DPN	H	30	11/12	0.97	0.05	11,12,17,18	0
1	DVA	D	31	7/8	0.97	0.06	11,13,18,18	0
1	DTH	H	15	7/8	0.97	0.05	8,10,12,12	0
1	DTH	H	51	7/8	0.97	0.05	12,13,15,16	0
1	DIL	H	5[A]	8/9	0.97	0.07	9,10,12,13	5
1	DPN	H	26	11/12	0.97	0.05	11,14,16,16	0
1	DIL	H	5[B]	8/9	0.97	0.07	9,11,14,14	5
1	DVA	D	54	7/8	0.97	0.04	8,8,9,10	0
1	DTY	D	45	12/13	0.97	0.05	8,9,11,12	0
1	DAL	D	34	5/6	0.97	0.04	10,10,12,14	0
1	DAS	D	46	8/9	0.97	0.05	9,11,16,18	0
1	DPN	D	23	11/12	0.97	0.05	11,12,14,15	0
1	DTH	D	17	7/8	0.97	0.05	12,13,14,16	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
1	DTH	D	51	7/8	0.98	0.04	7,8,10,10	0
1	DTH	D	49	7/8	0.98	0.04	9,10,11,13	0
1	DPN	D	30	11/12	0.98	0.05	9,12,19,20	0
1	DPN	H	52	11/12	0.98	0.04	10,11,12,14	0
1	DTY	D	32	12/13	0.98	0.04	9,10,12,14	0
1	DPN	D	40	11/12	0.98	0.04	9,10,12,12	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.