

Full wwPDB X-ray Structure Validation Report (i)

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PDB ID	:	6B0T
Title	:	Structural Insights into the Induced-fit Inhibition of Fascin by a Small Molecule
Authors	:	Dey, R.; Huang, X.Y.
Deposited on	:	2017-09-15
Resolution	:	2.80 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 (i) 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 (1)) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

The reported resolution of this entry is 2.80 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R _{free}	130704	3140 (2.80-2.80)
Clashscore	141614	3569(2.80-2.80)
Ramachandran outliers	138981	3498 (2.80-2.80)
Sidechain outliers	138945	3500 (2.80-2.80)
RSRZ outliers	127900	3078 (2.80-2.80)

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 <=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	
			12%	
1	А	487	88%	12%
			3%	
1	В	487	90%	10%
			3%	
1	С	487	92%	8%
			10%	
1	D	487	87%	12% ·
			11%	
1	E	487	89%	11%



Mol	Chain	Length	Quality of chain	
	_		10%	
1	\mathbf{F}	487	89%	11%



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2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 45507 atoms, of which 22171 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.

Mol	Chain	Residues			Atom	IS			ZeroOcc	AltConf	Trace
1	Δ	487	Total	С	Η	Ν	0	S	0	0	0
1	Л	401	7485	2376	3682	680	733	14	0	0	0
1	В	487	Total	С	Η	Ν	Ο	\mathbf{S}	0	0	0
	D	401	7485	2376	3682	680	733	14	0	0	U
1	С	497	Total	С	Η	Ν	Ο	\mathbf{S}	0	0	0
	U	401	7485	2376	3682	680	733	14	0		0
1	а	487	Total	С	Η	Ν	Ο	\mathbf{S}	0	0	0
	D	401	7485	2376	3682	680	733	14	0	0	0
1	F	487	Total	С	Η	Ν	Ο	\mathbf{S}	0	0	0
L		401	7474	2376	3671	680	733	14	0	0	0
1	1 F	487	Total	С	Η	Ν	0	S	0	0	0
		487	7485	2376	3682	680	733	14	U	U	0

• Molecule 1 is a protein called Fascin.

• Molecule 2 is 4-methyl-N-(1-{[4-(trifluoromethyl)phenyl]methyl}-1H-indazol-3-yl)-1,2-oxazo le-5-carboxamide (three-letter code: C7V) (formula: $C_{20}H_{15}F_3N_4O_2$).





Mol	Chain	Residues		A	tor	ns			ZeroOcc	AltConf												
9	Δ	1	Total	С	F	Η	Ν	Ο	0	0												
	Л	T	44	20	3	15	4	2	0	0												
2	В	1	Total	С	F	Η	Ν	Ο	0	0												
2	D	T	44	20	3	15	4	2	0	0												
2	С	1	Total	С	F	Η	Ν	Ο	0	0												
2	U	1	44	20	3	15	4	2	0	0												
2	а	1	Total	С	F	Η	Ν	Ο	0	0												
2	D	T	44	20	3	15	4	2	0	0												
2	Б	F	F	E	E	F	F	F	F	F	F	F	F	1	Total	С	F	Η	Ν	Ο	0	0
2	Ľ	I	44	20	3	15	4	2	0	0												
2	F	1	Total	С	F	Η	N	Ο	0	0												
2	Г	L, L,	L	44	20	3	15	4	2		U											

• Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	32	$\begin{array}{cc} \text{Total} & \text{O} \\ 32 & 32 \end{array}$	0	0
3	В	78	Total O 78 78	0	0
3	С	89	Total O 89 89	0	0
3	D	40	Total O 40 40	0	0
3	Ε	58	$\begin{array}{cc} {\rm Total} & {\rm O} \\ 58 & 58 \end{array}$	0	0
3	F	47	$\begin{array}{cc} \text{Total} & \text{O} \\ 47 & 47 \end{array}$	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: Fascin





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 2 1	Depositor
Cell constants	102.58Å 59.26 Å 293.65 Å	Deperitor
a, b, c, α , β , γ	90.00° 90.03° 90.00°	Depositor
$\mathbf{P}_{\text{assolution}}(\hat{\mathbf{A}})$	45.44 - 2.80	Depositor
Resolution (A)	46.11 - 2.00	EDS
% Data completeness	98.6 (45.44-2.80)	Depositor
(in resolution range)	88.6 (46.11-2.00)	EDS
R _{merge}	0.09	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.33 (at 2.00 \text{\AA})$	Xtriage
Refinement program	PHENIX (1.12_2829)	Depositor
D D.	0.265 , 0.303	Depositor
Π, Π_{free}	0.266 , 0.301	DCC
R_{free} test set	10489 reflections $(4.92%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	26.5	Xtriage
Anisotropy	0.198	Xtriage
Bulk solvent $k_{sol}(e/A^3), B_{sol}(A^2)$	0.39, 41.6	EDS
L-test for twinning ²	$< L > = 0.45, < L^2 > = 0.28$	Xtriage
Estimated twinning fraction	0.055 for h,-k,-l	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	45507	wwPDB-VP
Average B, all atoms $(Å^2)$	58.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 71.33 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 2.6790e-06. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

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.



¹Intensities estimated from amplitudes.

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: $\mathrm{C7V}$

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).

Mal	Chain	Bond	lengths	Bond angles		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.27	0/3884	0.47	0/5252	
1	В	0.26	0/3884	0.46	0/5252	
1	С	0.28	0/3884	0.47	0/5252	
1	D	0.28	0/3884	0.47	0/5252	
1	Е	0.26	0/3884	0.46	0/5252	
1	F	0.27	0/3884	0.48	0/5252	
All	All	0.27	0/23304	0.47	0/31512	

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	А	3803	3682	3682	40	0
1	В	3803	3682	3682	34	0
1	С	3803	3682	3682	22	0
1	D	3803	3682	3682	38	0
1	Е	3803	3671	3682	34	0
1	F	3803	3682	3682	37	0
2	А	29	15	0	3	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	В	29	15	0	4	0
2	С	29	15	0	3	0
2	D	29	15	0	2	0
2	Е	29	15	0	5	0
2	F	29	15	0	2	0
3	А	32	0	0	2	0
3	В	78	0	0	4	0
3	С	89	0	0	2	0
3	D	40	0	0	4	0
3	Ε	58	0	0	3	0
3	F	47	0	0	10	0
All	All	23336	22171	22092	207	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 5.

All (207) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom 1	Atom 2	Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
1:A:50:GLN:HG2	2:A:501:C7V:N4	1.74	1.02
1:A:157:ALA:O	1:A:158:ARG:O	1.85	0.93
1:F:152:TYR:CE2	1:F:170:PRO:HD3	2.03	0.92
1:D:215:GLU:OE2	1:D:217:ARG:NH2	2.02	0.92
1:F:215:GLU:OE2	1:F:217:ARG:NH2	2.02	0.92
1:A:215:GLU:OE2	1:A:217:ARG:NH2	2.09	0.86
1:A:246:THR:OG1	1:F:468:ARG:HG2	1.78	0.83
1:A:343:ARG:NH2	1:A:450:ASP:OD2	2.12	0.83
1:A:152:TYR:CE2	1:A:170:PRO:HD3	2.15	0.81
1:E:50:GLN:HG2	2:E:501:C7V:N4	1.96	0.79
1:A:50:GLN:CG	2:A:501:C7V:N4	2.46	0.77
1:D:456:CYS:SG	3:D:638:HOH:O	2.43	0.77
1:B:51:PRO:O	1:B:53:ASP:N	2.18	0.76
1:C:137:ALA:O	1:C:389:ARG:NH2	2.18	0.76
1:A:471:LYS:HG3	1:A:488:ALA:O	1.86	0.76
1:E:260:CYS:O	1:E:382:ASN:ND2	2.19	0.75
1:A:419:ASN:ND2	3:A:602:HOH:O	2.21	0.73
1:F:210:THR:O	3:F:601:HOH:O	2.06	0.73
1:B:217:ARG:HA	2:B:501:C7V:C01	2.19	0.72
1:E:87:PRO:O	3:E:601:HOH:O	2.08	0.71
1:C:51:PRO:O	1:C:53:ASP:N	2.24	0.70
1:F:43:LYS:NZ	3:F:606:HOH:O	2.24	0.70



	A i a	Interatomic	Clash	
Atom-1	Atom-2	distance (\AA)	overlap (Å)	
1:A:51:PRO:O	1:A:53:ASP:N	2.24	0.70	
1:B:152:TYR:CE1	1:B:170:PRO:HD3	2.27	0.70	
1:F:51:PRO:O	1:F:53:ASP:N	2.25	0.69	
1:D:438:ASP:OD2	3:D:601:HOH:O	2.11	0.69	
1:A:405:ASP:OD1	3:A:601:HOH:O	2.12	0.68	
1:B:230:TYR:HD1	1:B:245:ALA:O	1.77	0.68	
1:E:51:PRO:O	1:E:53:ASP:N	2.27	0.67	
1:D:51:PRO:O	1:D:53:ASP:N	2.27	0.67	
1:B:372:ASP:OD1	3:B:601:HOH:O	2.12	0.66	
1:E:152:TYR:CE1	1:E:170:PRO:HD3	2.31	0.66	
1:E:409:SER:O	3:E:602:HOH:O	2.13	0.65	
1:F:227:GLU:OE1	1:F:229:ARG:NH2	2.31	0.64	
1:A:380:LEU:HD12	1:A:423:TYR:CE1	2.32	0.64	
1:E:50:GLN:CG	2:E:501:C7V:N4	2.61	0.64	
1:A:157:ALA:C	1:A:158:ARG:O	2.35	0.63	
1:E:299:ASP:OD1	1:E:300:ARG:N	2.32	0.63	
1:E:53:ASP:OD2	1:E:90:ARG:NH2	2.32	0.63	
1:F:246:THR:HG22	1:F:247:LYS:N	2.14	0.62	
1:E:397:CYS:N	1:E:412:ASP:OD2	2.32	0.62	
1:D:22:LYS:NZ	1:D:38:SER:OG	2.34	0.61	
1:D:348:ARG:NH1	1:D:352:GLY:O	2.33	0.61	
1:B:245:ALA:O	1:B:246:THR:C	2.40	0.60	
1:C:53:ASP:OD1	1:C:54:GLU:N	2.36	0.59	
1:B:198:HIS:ND1	1:B:209:ALA:HB1	2.16	0.59	
1:B:230:TYR:HB2	1:B:245:ALA:HB1	1.84	0.59	
1:F:246:THR:HG22	1:F:247:LYS:H	1.67	0.59	
1:E:213:THR:OG1	1:E:224:ARG:HB3	2.02	0.59	
1:D:152:TYR:CE1	1:D:170:PRO:HD3	2.37	0.59	
1:E:298:ILE:O	1:E:458:TYR:CE1	2.55	0.58	
1:F:190:THR:OG1	1:F:192:ASP:OD1	2.21	0.58	
1:E:457:ASP:O	1:E:459:ASN:N	2.37	0.58	
1:D:344:ARG:NH1	1:D:420:ASP:OD1	2.33	0.57	
1:F:50:GLN:HG2	2:F:501:C7V:N4	2.19	0.57	
1:C:397:CYS:SG	1:C:443:SER:OG	2.60	0.57	
1:A:190:THR:OG1	1:A:192:ASP:OD1	2.20	0.57	
1:A:260:CYS:O	1:A:382:ASN:ND2	2.37	0.57	
1:D:293:THR:O	3:D:602:HOH:O	2.17	0.57	
2:F:501:C7V:O2	2:F:501:C7V:C14	2.53	0.56	
1:C:224:ARG:NH1	1:C:230:TYR:OH	2.39	0.56	
2:D:501:C7V:O2	2:D:501:C7V:C14	2.53	0.56	
2:A:501:C7V:O2	2:A:501:C7V:C14	2.53	0.56	



		Interatomic	Clash	
Atom-1	Atom-2	distance (Å)	overlap (Å)	
2:B:501:C7V:O2	2:B:501:C7V:C14	2.53	0.56	
2:C:501:C7V:O2	2:C:501:C7V:C14	2.54	0.56	
1:E:218:SER:H	2:E:501:C7V:C01	2.18	0.56	
1:B:403:THR:OG1	1:D:118:ARG:NH1	2.39	0.56	
1:E:215:GLU:OE2	1:E:217:ARG:NH2	2.39	0.56	
1:B:230:TYR:HB2	1:B:245:ALA:CB	2.35	0.56	
1:B:397:CYS:N	1:B:412:ASP:OD2	2.39	0.56	
2:E:501:C7V:O2	2:E:501:C7V:C14	2.53	0.56	
1:C:90:ARG:NH1	1:C:106:GLU:OE1	2.39	0.55	
1:F:152:TYR:CZ	1:F:170:PRO:HD3	2.41	0.55	
1:B:234:SER:O	1:B:239:THR:N	2.40	0.55	
1:A:246:THR:OG1	1:F:468:ARG:CG	2.53	0.55	
1:E:217:ARG:HA	2:E:501:C7V:C01	2.36	0.55	
1:E:227:GLU:OE1	1:E:229:ARG:NH2	2.40	0.55	
1:D:138:MET:HE3	1:D:256:LEU:HB3	1.88	0.54	
1:A:471:LYS:HD2	1:A:488:ALA:CB	2.37	0.54	
1:D:343:ARG:O	1:D:344:ARG:NH1	2.34	0.54	
1:E:190:THR:OG1	1:E:192:ASP:OD1	2.23	0.54	
1:E:68:ARG:NH1	1:E:81:GLU:O	2.38	0.54	
1:D:415:GLN:OE1	1:D:426:LYS:HE3	2.09	0.53	
1:A:343:ARG:NH1	1:A:419:ASN:O	2.41	0.53	
1:C:190:THR:OG1	1:C:192:ASP:OD1	2.21	0.53	
1:B:167:ARG:NH1	3:B:611:HOH:O	2.41	0.53	
1:C:197:ARG:HG2	1:C:199:ASP:OD1	2.08	0.53	
1:C:296:LEU:HD21	1:C:455:PHE:CG	2.43	0.53	
1:D:100:ARG:N	3:D:605:HOH:O	2.40	0.53	
1:C:217:ARG:NH1	3:C:605:HOH:O	2.37	0.53	
1:D:343:ARG:HB2	1:D:420:ASP:O	2.08	0.53	
1:F:343:ARG:O	1:F:344:ARG:HD3	2.08	0.53	
1:A:397:CYS:N	1:A:412:ASP:OD2	2.41	0.52	
1:D:149:ARG:O	1:D:151:ARG:HG2	2.09	0.52	
1:B:215:GLU:OE2	1:B:217:ARG:NH2	2.42	0.52	
1:B:230:TYR:CD1	1:B:245:ALA:O	2.60	0.52	
1:F:304:LYS:HD3	1:F:335:TYR:HB3	1.91	0.52	
1:A:473:ASP:OD2	1:A:479:LYS:NZ	2.36	0.52	
1:F:182:GLN:CG	3:F:615:HOH:O	2.58	0.52	
1:F:182:GLN:HG2	3:F:615:HOH:O	2.10	0.52	
1:B:97:ASP:O	1:B:185:ARG:NH2	2.40	0.52	
1:A:229:ARG:HG3	1:A:244:LYS:O	2.10	0.52	
1:E:344:ARG:NH2	1:E:420:ASP:OD1	2.37	0.52	
1:A:53:ASP:OD2	1:A:90:ARG:NH1	2.42	0.51	



	, and pagetti	Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
1:F:417:GLU:OE2	1:F:426:LYS:NZ	2.43	0.51
1:E:298:ILE:O	1:E:458:TYR:CD1	2.63	0.51
1:A:68:ARG:NH1	1:A:81:GLU:O	2.39	0.51
1:A:152:TYR:CZ	1:A:170:PRO:HD3	2.45	0.51
1:B:299:ASP:O	1:B:303:LYS:HA	2.10	0.51
1:C:215:GLU:OE2	1:C:217:ARG:NH2	2.44	0.51
1:E:304:LYS:HG2	1:E:337:ASP:OD1	2.10	0.51
1:F:304:LYS:HB3	1:F:336:PHE:O	2.11	0.51
1:F:301:ASP:O	3:F:602:HOH:O	2.20	0.50
1:B:53:ASP:OD2	1:B:90:ARG:NH2	2.44	0.50
1:B:192:ASP:O	1:B:193:HIS:HB2	2.11	0.49
1:D:260:CYS:O	1:D:382:ASN:ND2	2.46	0.49
1:F:471:LYS:HG3	1:F:488:ALA:O	2.12	0.49
1:D:68:ARG:NH1	1:D:81:GLU:O	2.46	0.49
1:E:56:GLY:O	3:E:603:HOH:O	2.20	0.49
1:A:50:GLN:NE2	1:A:59:ALA:O	2.38	0.49
1:E:261:ALA:O	1:E:296:LEU:N	2.44	0.49
1:F:260:CYS:O	1:F:382:ASN:ND2	2.46	0.49
1:F:358:LYS:NZ	3:F:609:HOH:O	2.44	0.49
1:D:426:LYS:HB3	1:D:432:TYR:CD1	2.48	0.49
1:F:68:ARG:NH1	1:F:81:GLU:O	2.43	0.49
1:B:379:LYS:NZ	3:B:619:HOH:O	2.47	0.48
1:D:163:ILE:HG21	1:D:240:LEU:HD23	1.95	0.48
1:D:426:LYS:HB3	1:D:432:TYR:CE1	2.48	0.48
1:F:158:ARG:CB	1:F:159:PRO:CD	2.92	0.48
1:E:152:TYR:CZ	1:E:170:PRO:HD3	2.49	0.47
1:F:230:TYR:CE1	1:F:246:THR:O	2.67	0.47
1:F:354:PHE:N	1:F:367:VAL:O	2.31	0.47
1:E:217:ARG:NH1	1:E:248:VAL:HB	2.30	0.47
1:C:216:PHE:O	2:C:501:C7V:N3	2.48	0.47
1:A:471:LYS:HD2	1:A:488:ALA:HB1	1.96	0.47
1:D:73:ASP:OD1	1:D:75:ASP:N	2.49	0.46
1:A:217:ARG:NH1	1:A:248:VAL:HB	2.30	0.46
1:A:234:SER:O	1:A:239:THR:N	2.49	0.46
1:C:296:LEU:HD21	1:C:455:PHE:CB	2.45	0.46
1:D:198:HIS:C	1:D:198:HIS:ND1	2.69	0.46
1:D:459:ASN:O	1:D:492:GLU:HA	2.15	0.46
1:E:341:ARG:O	1:E:342:ASP:C	2.54	0.46
1:C:117:ASP:OD2	3:C:601:HOH:O	2.20	0.46
1:C:427:ASP:OD2	1:C:443:SER:HB2	2.16	0.45
1:D:148:THR:HG23	1:D:149:ARG:N	2.31	0.45



		Interatomic	Clash	
Atom-1	Atom-2	distance (Å)	overlap (Å)	
1:F:405:ASP:OD1	3:F:603:HOH:O	2.21	0.45	
1:F:329:SER:OG	3:F:604:HOH:O	2.21	0.45	
1:A:29:PHE:N	1:A:29:PHE:CD1	2.84	0.45	
1:B:245:ALA:HB1	1:B:252:GLU:HG2	1.99	0.45	
1:B:50:GLN:OE1	2:B:501:C7V:N4	2.50	0.45	
1:A:230:TYR:HD2	1:A:245:ALA:O	2.00	0.45	
1:B:152:TYR:CZ	1:B:170:PRO:HD3	2.52	0.45	
1:A:344:ARG:NH2	1:A:420:ASP:OD1	2.45	0.44	
1:D:341:ARG:O	1:D:342:ASP:C	2.54	0.44	
1:F:230:TYR:CD1	1:F:246:THR:O	2.71	0.44	
1:A:321:GLY:O	1:A:365:ALA:N	2.50	0.44	
1:B:217:ARG:NH1	1:B:248:VAL:HB	2.33	0.44	
1:A:341:ARG:O	1:A:342:ASP:C	2.55	0.44	
1:D:137:ALA:O	1:D:389:ARG:NH2	2.44	0.44	
1:E:167:ARG:NH2	1:E:290:ASP:OD1	2.46	0.44	
1:B:343:ARG:NH1	1:B:419:ASN:O	2.51	0.43	
1:E:343:ARG:HB3	1:E:420:ASP:O	2.17	0.43	
1:E:346:THR:HG1	1:E:354:PHE:HE1	1.66	0.43	
1:A:471:LYS:HG3	1:A:488:ALA:HB1	1.99	0.43	
1:B:401:THR:HG21	1:D:117:ASP:OD2	2.19	0.43	
1:A:339:GLU:OE2	1:A:346:THR:OG1	2.28	0.43	
1:B:216:PHE:O	2:B:501:C7V:N3	2.52	0.43	
1:A:31:PHE:HB3	1:A:81:GLU:HB3	2.01	0.43	
1:C:342:ASP:O	1:C:344:ARG:N	2.52	0.43	
1:D:281:LEU:HD21	1:D:325:SER:OG	2.18	0.43	
1:F:299:ASP:OD1	1:F:300:ARG:N	2.52	0.43	
1:E:13:GLN:O	1:E:136:ILE:HD12	2.18	0.42	
1:F:397:CYS:N	1:F:412:ASP:OD2	2.51	0.42	
1:B:137:ALA:O	1:B:389:ARG:NH2	2.42	0.42	
1:B:486:ASP:N	1:B:489:SER:OG	2.49	0.42	
1:F:29:PHE:CD1	1:F:29:PHE:N	2.86	0.42	
1:F:158:ARG:HB3	1:F:159:PRO:CD	2.48	0.42	
1:A:92:LEU:CD1	1:A:109:ARG:NH1	2.83	0.42	
1:C:395:ILE:HA	1:C:405:ASP:O	2.20	0.42	
1:E:468:ARG:NH1	1:E:483:GLU:CG	2.83	0.42	
1:E:468:ARG:NH1	1:E:483:GLU:HG2	2.35	0.42	
1:B:298:ILE:N	1:B:298:ILE:HD12	2.34	0.42	
1:C:299:ASP:HB3	1:C:303:LYS:O	2.20	0.42	
1:C:296:LEU:CD2	1:C:455:PHE:CG	3.02	0.42	
1:D:198:HIS:C	1:D:198:HIS:HD1	2.22	0.42	
1:A:105:SER:O	1:A:109:ARG:N	2.45	0.42	



A 4 1	A +	Interatomic	Clash
Atom-1	Atom-2	distance (\AA)	overlap (Å)
1:D:158:ARG:N	1:D:159:PRO:CD	2.82	0.42
1:E:471:LYS:HE3	1:E:488:ALA:CB	2.50	0.42
1:D:16:LEU:HD21	2:D:501:C7V:F1	2.10	0.41
1:D:397:CYS:N	1:D:412:ASP:OD2	2.53	0.41
1:D:415:GLN:HB2	1:D:426:LYS:HG3	2.02	0.41
1:D:234:SER:O	1:D:239:THR:N	2.54	0.41
1:F:244:LYS:O	1:F:246:THR:N	2.53	0.41
1:B:13:GLN:O	1:B:136:ILE:HD12	2.21	0.41
1:F:378:MET:HG2	3:F:620:HOH:O	2.20	0.41
1:A:471:LYS:HD2	1:A:488:ALA:HB3	2.02	0.41
1:A:137:ALA:O	1:A:389:ARG:NH2	2.47	0.41
1:B:183:ASP:O	3:B:602:HOH:O	2.21	0.41
1:C:303:LYS:O	1:C:304:LYS:O	2.38	0.41
1:D:152:TYR:CZ	1:D:170:PRO:HD3	2.56	0.41
1:C:50:GLN:NE2	2:C:501:C7V:N4	2.69	0.41
1:B:302:THR:HG22	1:B:304:LYS:HG3	2.02	0.41
1:C:174:ASP:OD1	1:C:174:ASP:N	2.53	0.40
1:D:88:ASP:OD1	1:D:108:HIS:NE2	2.46	0.40
1:F:182:GLN:HG3	3:F:615:HOH:O	2.21	0.40
1:B:230:TYR:H	1:B:245:ALA:HB3	1.86	0.40
1:D:48:LEU:HD21	1:D:93:ILE:HD11	2.04	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	А	485/487~(100%)	439 (90%)	41 (8%)	5 (1%)	15 44
1	В	485/487~(100%)	443 (91%)	39 (8%)	3 (1%)	25 56
1	С	485/487~(100%)	445~(92%)	38 (8%)	2 (0%)	34 66
1	D	485/487~(100%)	440 (91%)	44 (9%)	1 (0%)	47 78



Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	entiles
1	Ε	485/487~(100%)	447 (92%)	35~(7%)	3 (1%)	25	56
1	F	485/487~(100%)	442 (91%)	40 (8%)	3 (1%)	25	56
All	All	2910/2922~(100%)	2656 (91%)	237 (8%)	17 (1%)	25	56

All (17) Ramachandran outliers are listed below:

\mathbf{Mol}	Chain	Res	Type
1	А	158	ARG
1	А	159	PRO
1	А	458	TYR
1	В	304	LYS
1	Е	458	TYR
1	F	245	ALA
1	F	158	ARG
1	С	52	PRO
1	С	304	LYS
1	Е	304	LYS
1	F	52	PRO
1	А	52	PRO
1	А	245	ALA
1	D	52	PRO
1	Е	52	PRO
1	В	399	LYS
1	В	52	PRO

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	Perce	ntiles
1	А	400/400~(100%)	396~(99%)	4 (1%)	76	93
1	В	400/400~(100%)	396~(99%)	4 (1%)	76	93
1	С	400/400~(100%)	392~(98%)	8 (2%)	55	84
1	D	400/400~(100%)	390~(98%)	10 (2%)	47	80



Mol	Chain	Analysed	Rotameric	Outliers	Perce	ntiles
1	Ε	400/400~(100%)	396~(99%)	4 (1%)	76	93
1	F	400/400~(100%)	393~(98%)	7 (2%)	59	86
All	All	2400/2400~(100%)	2363~(98%)	37~(2%)	65	89

All (37) residues with a non-rotameric sidechain are listed below:

Mol	Chain	\mathbf{Res}	Type
1	А	171	TRP
1	А	258	GLN
1	А	316	THR
1	А	489	SER
1	В	11	GLN
1	В	148	THR
1	В	171	TRP
1	В	221	VAL
1	С	21	ASN
1	С	40	LEU
1	С	66	LEU
1	С	90	ARG
1	С	171	TRP
1	С	213	THR
1	С	275	THR
1	С	459	ASN
1	D	38	SER
1	D	47	THR
1	D	169	VAL
1	D	171	TRP
1	D	198	HIS
1	D	305	CYS
1	D	316	THR
1	D	447	THR
1	D	458	TYR
1	D	459	ASN
1	Е	40	LEU
1	Е	171	TRP
1	Е	325	SER
1	Е	485	VAL
1	F	40	LEU
1	F	136	ILE
1	F	148	THR
1	F	171	TRP



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Mol	Chain	Res	Type
1	F	316	THR
1	F	458	TYR
1	F	489	SER

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

Mol	Chain	Res	Type
1	В	193	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 monosaccharides in this entry.

5.6 Ligand geometry (i)

6 ligands are 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).

Mal	Turne	Chain	Dec	Tiple	Bo	ond leng	$_{\rm ths}$	B	ond ang	les
IVIOI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	C7V	E	501	-	26,32,32	1.19	4 (15%)	29,47,47	1.98	7 (24%)
2	C7V	F	501	-	26,32,32	1.18	4 (15%)	29,47,47	1.97	7 (24%)
2	C7V	А	501	-	26,32,32	1.18	4 (15%)	29,47,47	1.97	7 (24%)
2	C7V	В	501	-	26,32,32	1.19	4 (15%)	29,47,47	1.97	7 (24%)



Mal	Turne	Chain	Dog	Tink	Bo	ond leng	$_{\rm ths}$	B	ond ang	les
IVIOI	туре	Unam	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	C7V	С	501	-	26,32,32	1.18	3 (11%)	29,47,47	1.98	7 (24%)
2	C7V	D	501	-	26,32,32	1.18	4 (15%)	29,47,47	1.97	7 (24%)

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	C7V	Е	501	-	-	0/12/18/18	0/4/4/4
2	C7V	F	501	-	-	0/12/18/18	0/4/4/4
2	C7V	А	501	-	-	0/12/18/18	0/4/4/4
2	C7V	В	501	-	-	0/12/18/18	0/4/4/4
2	C7V	С	501	-	-	0/12/18/18	0/4/4/4
2	C7V	D	501	-	-	0/12/18/18	0/4/4/4

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	501	C7V	C11-C10	3.05	1.45	1.37
2	С	501	C7V	C11-C10	3.03	1.45	1.37
2	Е	501	C7V	C11-C10	3.03	1.45	1.37
2	В	501	C7V	C11-C10	3.03	1.45	1.37
2	А	501	C7V	C11-C10	3.03	1.45	1.37
2	F	501	C7V	C11-C10	3.01	1.45	1.37
2	С	501	C7V	C7-N3	2.86	1.41	1.36
2	В	501	C7V	C7-N3	2.84	1.41	1.36
2	F	501	C7V	C7-N3	2.84	1.41	1.36
2	А	501	C7V	C7-N3	2.84	1.41	1.36
2	Е	501	C7V	C7-N3	2.83	1.41	1.36
2	D	501	C7V	C7-N3	2.77	1.41	1.36
2	С	501	C7V	C01-C10	-2.17	1.46	1.51
2	В	501	C7V	C01-C10	-2.17	1.46	1.51
2	F	501	C7V	C01-C10	-2.17	1.46	1.51
2	А	501	C7V	C01-C10	-2.16	1.46	1.51
2	Е	501	C7V	C01-C10	-2.15	1.46	1.51
2	D	501	C7V	C01-C10	-2.15	1.46	1.51
2	F	501	C7V	C14-C13	-2.06	1.38	1.42
2	Е	501	C7V	C14-C13	-2.04	1.38	1.42
2	В	501	C7V	C14-C13	-2.03	1.38	1.42
2	D	501	C7V	C14-C13	-2.02	1.38	1.42
2	А	501	C7V	C14-C13	-2.02	1.38	1.42



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Mol	Chain	Res	Type	Atoms	Z	Observed(^o)	$Ideal(^{o})$
2	С	501	C7V	C5-C6-N1	-7.03	102.19	112.48
2	Е	501	C7V	C5-C6-N1	-7.02	102.20	112.48
2	А	501	C7V	C5-C6-N1	-7.01	102.22	112.48
2	В	501	C7V	C5-C6-N1	-7.01	102.22	112.48
2	F	501	C7V	C5-C6-N1	-7.00	102.24	112.48
2	D	501	C7V	C5-C6-N1	-6.97	102.28	112.48
2	В	501	C7V	C6-N1-N2	2.82	125.70	117.77
2	F	501	C7V	C6-N1-N2	2.82	125.70	117.77
2	Е	501	C7V	C6-N1-N2	2.81	125.69	117.77
2	D	501	C7V	C6-N1-N2	2.81	125.68	117.77
2	А	501	C7V	C6-N1-N2	2.81	125.67	117.77
2	С	501	C7V	C6-N1-N2	2.80	125.63	117.77
2	С	501	C7V	C17-C18-C13	2.78	124.73	120.94
2	Е	501	C7V	C17-C18-C13	2.77	124.71	120.94
2	А	501	C7V	C17-C18-C13	2.76	124.69	120.94
2	D	501	C7V	C17-C18-C13	2.75	124.68	120.94
2	В	501	C7V	C17-C18-C13	2.74	124.66	120.94
2	F	501	C7V	C17-C18-C13	2.74	124.66	120.94
2	D	501	C7V	C01-C10-C11	-2.56	122.40	127.92
2	Е	501	C7V	C01-C10-C11	-2.56	122.41	127.92
2	С	501	C7V	C01-C10-C11	-2.54	122.43	127.92
2	А	501	C7V	C01-C10-C11	-2.54	122.44	127.92
2	F	501	C7V	C01-C10-C11	-2.54	122.44	127.92
2	В	501	C7V	C01-C10-C11	-2.54	122.45	127.92
2	F	501	C7V	C16-C17-C18	-2.52	114.60	119.44
2	С	501	C7V	C16-C17-C18	-2.52	114.62	119.44
2	D	501	C7V	C16-C17-C18	-2.52	114.62	119.44
2	Ε	501	C7V	C16-C17-C18	-2.51	114.62	119.44
2	А	501	C7V	C16-C17-C18	-2.51	114.64	119.44
2	D	501	C7V	C15-C14-C13	-2.49	117.43	120.89
2	В	501	C7V	C16-C17-C18	-2.49	114.67	119.44
2	Ε	501	C7V	C15-C14-C13	-2.48	117.45	120.89
2	А	501	C7V	C15-C14-C13	-2.48	117.46	120.89
2	F	501	$C7\overline{V}$	C15-C14-C13	-2.47	$117.4\overline{6}$	120.89
2	С	501	C7V	C15-C14-C13	-2.47	117.47	120.89
2	В	501	C7V	C15-C14-C13	-2.46	117.49	120.89
2	С	501	C7V	C20-C2-C3	2.15	121.17	117.97
2	D	501	C7V	C20-C2-C3	2.13	121.15	117.97
2	В	501	C7V	C20-C2-C3	2.13	121.14	117.97
2	А	501	C7V	C20-C2-C3	2.12	121.13	117.97
2	Ε	501	C7V	C20-C2-C3	2.11	121.12	117.97
2	F	501	C7V	C20-C2-C3	2.11	121.11	117.97

All (42) bond angle outliers are listed below:



There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6 monomers are involved in 19 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	Е	501	C7V	5	0
2	F	501	C7V	2	0
2	А	501	C7V	3	0
2	В	501	C7V	4	0
2	С	501	C7V	3	0
2	D	501	C7V	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and sufficient the outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.















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, 95^{th} 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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	487/487~(100%)	0.54	60 (12%) 4 2	29, 78, 128, 196	2 (0%)
1	В	487/487~(100%)	-0.31	14 (2%) 51 41	24, 44, 82, 195	2 (0%)
1	С	487/487~(100%)	-0.24	16 (3%) 46 36	21, 43, 91, 197	2(0%)
1	D	487/487~(100%)	0.53	47 (9%) 7 4	30, 75, 129, 207	2 (0%)
1	Ε	487/487~(100%)	0.49	53 (10%) 5 3	27, 73, 126, 233	2(0%)
1	F	487/487~(100%)	0.44	49 (10%) 7 4	30, 74, 128, 169	2 (0%)
All	All	2922/2922~(100%)	0.24	239 (8%) 11 6	21, 64, 122, 233	12 (0%)

All (239) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	7	ALA	15.5
1	F	350	SER	11.4
1	Е	350	SER	11.2
1	D	350	SER	10.9
1	Е	458	TYR	9.9
1	Е	7	ALA	9.4
1	F	201	ARG	9.2
1	А	350	SER	8.3
1	Е	8	GLU	8.3
1	А	458	TYR	7.8
1	F	159	PRO	7.8
1	D	9	ALA	7.2
1	D	159	PRO	7.0
1	С	7	ALA	7.0
1	А	159	PRO	6.8
1	Е	349	ALA	6.7
1	F	352	GLY	6.6
1	С	54	GLU	6.4
1	D	366	SER	6.3



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Mol	Chain	Res Type		RSRZ
1	D	349	ALA	6.2
1	D	52	PRO	6.1
1	В	244	LYS	6.1
1	D	8	GLU	6.0
1	Е	52	PRO	5.9
1	D	7	ALA	5.9
1	D	458	TYR	5.9
1	D	158	ARG	5.7
1	F	8	GLU	5.7
1	F	347	LEU	5.6
1	В	52	PRO	5.5
1	А	57	SER	5.5
1	Е	159	PRO	5.4
1	F	57	SER	5.4
1	А	161	ASP	5.4
1	А	158	ARG	5.3
1	F	158	ARG	4.9
1	F	245	ALA	4.9
1	А	277	GLN	4.7
1	В	54	GLU	4.7
1	F	371	GLY	4.7
1	F	157	ALA	4.7
1	В	158	ARG	4.7
1	D	347	LEU	4.6
1	С	9	ALA	4.6
1	F	160	ALA	4.5
1	D	209	ALA	4.5
1	E	57	SER	4.5
1	А	8	GLU	4.5
1	Е	158	ARG	4.5
1	A	52	PRO	4.4
1	А	347	LEU	4.4
1	Е	355	VAL	4.2
1	Е	277	GLN	4.2
1	А	448	PRO	4.2
1	Е	347	347 LEU	
1	F	458	TYR	4.1
1	А	366	SER	4.1
1	A	421	GLY	4.0
1	D	199	ASP	4.0
1	F	366	SER	4.0
1	D	201	ARG	4.0



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Mol	Chain	Res Type		RSRZ
1	Е	338	ILE	4.0
1	Е	421	GLY	4.0
1	А	300	ARG	3.9
1	А	66	LEU	3.9
1	D	277	GLN	3.8
1	В	245	ALA	3.8
1	D	338	ILE	3.8
1	D	302	THR	3.7
1	В	159	PRO	3.7
1	С	99	GLY	3.7
1	D	54	GLU	3.7
1	D	343	ARG	3.7
1	D	205	ARG	3.6
1	D	318	THR	3.6
1	А	201	ARG	3.6
1	А	471	LYS	3.6
1	А	349	ALA	3.6
1	А	263	VAL	3.6
1	F	277	GLN	3.6
1	С	158	ARG	3.5
1	Е	9	ALA	3.5
1	А	296	LEU	3.5
1	D	362	GLN	3.5
1	F	205	ARG	3.5
1	Е	318	THR	3.5
1	F	355	VAL	3.5
1	А	355	VAL	3.4
1	Е	56	GLY	3.4
1	F	448	PRO	3.4
1	D	263	VAL	3.4
1	D	57	SER	3.4
1	С	159	PRO	3.3
1	F	244	LYS	3.3
1	Е	366	SER	3.3
1	F	199	ASP	3.3
1	Е	263	VAL	3.2
1	С	244	LYS	3.2
1	Е	305 CYS		3.2
1	F	367	VAL	3.2
1	А	380	LEU	3.2
1	А	445	GLY	3.1
1	Е	303	LYS	3.1



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Mol	Chain	Res	Type	RSRZ
1	Е	362	GLN	3.1
1	D	355	VAL	3.1
1	С	8	GLU	3.1
1	А	7	ALA	3.1
1	А	321	GLY	3.1
1	F	319	ALA	3.1
1	Е	456	CYS	3.1
1	F	362	GLN	3.0
1	Е	320	THR	3.0
1	D	160	ALA	3.0
1	С	55	ALA	2.9
1	А	340	TRP	2.9
1	А	157	ALA	2.9
1	А	299	ASP	2.9
1	D	352	GLY	2.9
1	F	263	VAL	2.9
1	F	52	PRO	2.8
1	F	300	ARG	2.8
1	F	293	THR	2.8
1	Е	32	LYS	2.8
1	А	305	CYS	2.8
1	А	456	CYS	2.8
1	F	370	ALA	2.8
1	D	372	ASP	2.8
1	D	99	GLY	2.8
1	В	458	TYR	2.8
1	F	7	ALA	2.8
1	D	342	ASP	2.8
1	А	452	PHE	2.7
1	F	452	PHE	2.7
1	А	326	THR	2.7
1	Е	264	VAL	2.7
1	В	56	GLY	2.7
1	Е	244	LYS	2.7
1	F	304	LYS	2.7
1	Е	360	ASN	2.7
1	Е	54	GLU	2.7
1	F	321	GLY	2.7
1	Е	319	ALA	2.7
1	D	56	GLY	2.6
1	D	365	ALA	2.6
1	Е	55	ALA	2.6



Mol	Chain	Res	Type	RSRZ
1	А	420	ASP	2.6
1	F	296	LEU	2.6
1	А	342	ASP	2.6
1	D	426	LYS	2.6
1	С	57	SER	2.6
1	D	315	TRP	2.6
1	Е	342	ASP	2.6
1	Е	372	ASP	2.6
1	Е	205	ARG	2.6
1	F	299	ASP	2.6
1	В	9	ALA	2.6
1	В	300	ARG	2.6
1	А	278	GLY	2.6
1	С	56	GLY	2.6
1	Е	340	TRP	2.6
1	F	342	ASP	2.5
1	А	318	THR	2.5
1	D	341	ARG	2.5
1	А	422	ALA	2.5
1	С	300	ARG	2.5
1	F	340	TRP	2.5
1	С	245	ALA	2.5
1	С	277	GLN	2.5
1	D	282	SER	2.5
1	F	317	LEU	2.5
1	В	29	PHE	2.5
1	А	205	ARG	2.4
1	D	371	GLY	2.4
1	А	307	PHE	2.4
1	Е	306	ALA	2.4
1	D	319	ALA	2.4
1	D	340	TRP	2.4
1	F	315	TRP	2.4
1	A	335	TYR	2.4
1	C	201	ARG	2.4
1	F	264	VAL	2.4
1	А	280	ASP	2.4
1	С	124	GLN	2.4
1	D	246	THR	2.4
1	D	421	GLY	2.3
1	D	314	TYR	2.3
1	А	317	LEU	2.3



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Mol	Chain	Res	Type	RSRZ
1	Е	459	ASN	2.3
1	А	293	THR	2.3
1	В	246	THR	2.3
1	Е	296	LEU	2.3
1	А	371	GLY	2.3
1	А	367	VAL	2.3
1	А	370	ALA	2.3
1	D	55	ALA	2.3
1	F	338	ILE	2.3
1	F	326	THR	2.3
1	F	307	PHE	2.3
1	F	9	ALA	2.3
1	А	432	TYR	2.3
1	D	125	THR	2.2
1	А	333	SER	2.2
1	F	333	SER	2.2
1	Е	452	PHE	2.2
1	Е	343	ARG	2.2
1	А	202	LEU	2.2
1	Е	199	ASP	2.2
1	А	246	THR	2.2
1	D	354	PHE	2.2
1	А	352	GLY	2.2
1	Е	201	ARG	2.2
1	А	338	ILE	2.2
1	Е	293	THR	2.2
1	Е	280	ASP	2.2
1	A	484	THR	2.2
1	D	320	THR	2.2
1	Е	429	THR	2.2
1	A	199	ASP	2.1
1	В	243	GLY	2.1
1	A	195	PHE	2.1
1	Е	160	ALA	2.1
1	F	471	LYS	2.1
1	Е	82	ARG	2.1
1	F	246	THR	2.1
1	E	300	ARG	2.1
1	F	282	SER	2.1
1	А	168	ASP	2.1
1	F	278	GLY	2.1
1	А	337	ASP	2.1



Mol	Chain	Res	Type	RSRZ
1	Ε	232	ALA	2.1
1	Ε	380	LEU	2.0
1	D	85	PRO	2.0
1	Е	354	PHE	2.0
1	Ε	328	SER	2.0
1	А	29	PHE	2.0
1	Ε	330	LYS	2.0
1	А	245	ALA	2.0
1	А	354	PHE	2.0
1	F	336	PHE	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (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, 95^{th} 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	${f B} ext{-factors}({ m \AA}^2)$	Q < 0.9
2	C7V	А	501	29/29	0.67	0.27	60,73,105,192	0
2	C7V	Е	501	29/29	0.67	0.28	58,70,105,192	0
2	C7V	D	501	29/29	0.68	0.29	59,71,105,192	0
2	C7V	В	501	29/29	0.70	0.28	$51,\!66,\!105,\!192$	0
2	C7V	F	501	29/29	0.74	0.23	57,69,105,192	0
2	C7V	С	501	29/29	0.77	0.29	58,71,105,192	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



















6.5 Other polymers (i)

There are no such residues in this entry.

