



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 06:30 PM UTC

PDB ID : 1XQW / pdb_00001xqw
Title : Crystal structure of F1-mutant S105A complex with PHE-LEU
Authors : Goettig, P.; Brandstetter, H.; Groll, M.; Goehring, W.; Konarev, P.V.; Svergun, D.I.; Huber, R.; Kim, J.-S.
Deposited on : 2004-10-13
Resolution : 2.00 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

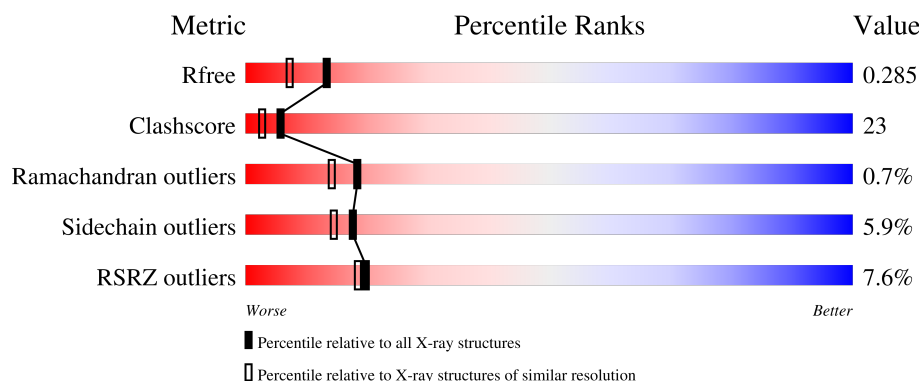
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	A	293	

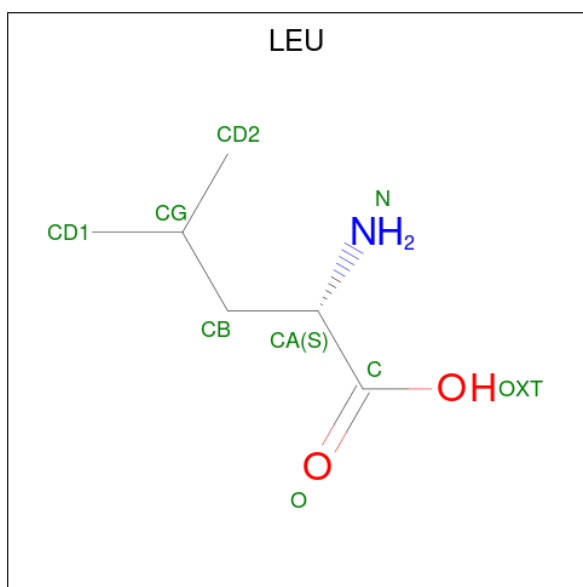
The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	PHE	A	300	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	LEU	A	301	-	-	X	-



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			9	6	1	2		
3	A	1	Total	C	N	O	0	0
			9	6	1	2		

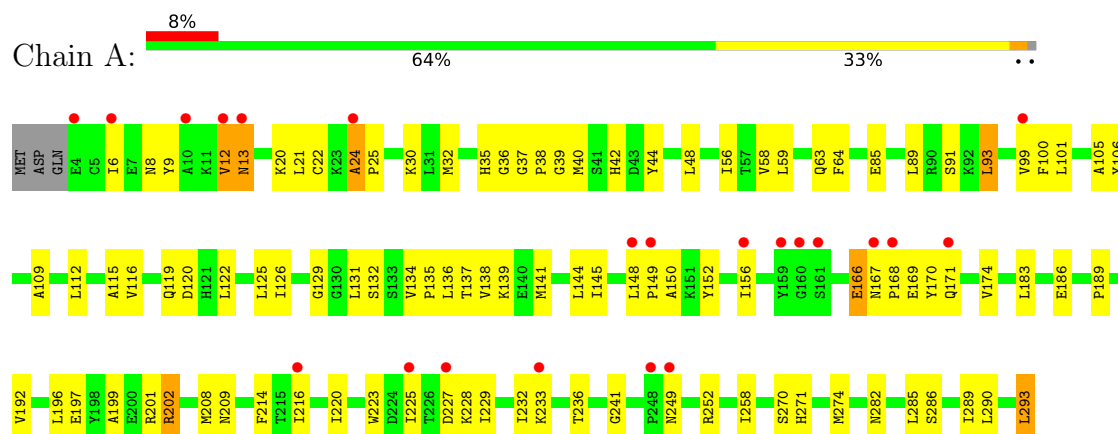
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	79	Total	O	0	0
			79	79		

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: Proline iminopeptidase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	57.35Å 61.88Å 80.50Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.41 – 2.00 19.41 – 2.00	Depositor EDS
% Data completeness (in resolution range)	92.0 (19.41-2.00) 91.8 (19.41-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.40 (at 1.84Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.248 , 0.285 0.248 , 0.285	Depositor DCC
R_{free} test set	1209 reflections (4.86%)	wwPDB-VP
Wilson B-factor (Å ²)	25.7	Xtriage
Anisotropy	0.635	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 47.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	2450	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.08% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.39	0/2385	0.83	1/3220 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	132	SER	N-CA-C	-5.12	107.06	113.72

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	A	2331	0	2287	102	0
2	A	22	0	16	11	0
3	A	18	0	22	13	0
4	A	79	0	0	3	0
All	All	2450	0	2325	107	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 23.

All (107) 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:A:40:MET:SD	3:A:301:LEU:HD21	1.79	1.23
1:A:40:MET:SD	3:A:301:LEU:CD2	2.49	1.00
1:A:216:ILE:HD13	2:A:300:PHE:CE2	1.97	0.99
1:A:141:MET:HE1	1:A:216:ILE:HD11	1.45	0.97
1:A:249:ASN:HB3	4:A:304:HOH:O	1.68	0.91
1:A:35:HIS:HE1	1:A:63:GLN:H	1.13	0.89
1:A:134:VAL:HG13	2:A:300:PHE:HZ	1.38	0.87
1:A:141:MET:HE1	1:A:216:ILE:CD1	2.05	0.86
1:A:134:VAL:HG13	2:A:300:PHE:CZ	2.14	0.82
1:A:24:ALA:HB1	1:A:25:PRO:HA	1.65	0.79
1:A:126:ILE:HD11	1:A:289:ILE:HD11	1.72	0.72
1:A:37:GLY:O	2:A:300:PHE:N	2.23	0.72
1:A:38:PRO:HG3	1:A:106:TYR:CD2	2.26	0.71
1:A:30:LYS:O	1:A:99:VAL:HG13	1.93	0.68
1:A:216:ILE:CD1	2:A:300:PHE:CE2	2.75	0.67
1:A:167:ASN:HD21	1:A:169:GLU:HB2	1.60	0.66
1:A:12:VAL:HG23	1:A:13:ASN:HD22	1.62	0.64
3:A:303:LEU:OXT	3:A:303:LEU:HD13	1.97	0.63
1:A:44:TYR:OH	3:A:301:LEU:OXT	2.16	0.63
1:A:35:HIS:CE1	1:A:63:GLN:H	2.06	0.63
1:A:40:MET:HE3	3:A:301:LEU:HG	1.80	0.62
1:A:167:ASN:ND2	1:A:169:GLU:HB2	2.14	0.62
2:A:302:PHE:CD1	3:A:303:LEU:HD12	2.35	0.61
1:A:119:GLN:HE22	1:A:233:LYS:H	1.49	0.61
1:A:109:ALA:HB1	1:A:223:TRP:CZ3	2.36	0.60
1:A:134:VAL:O	1:A:138:VAL:HG23	2.01	0.60
1:A:89:LEU:O	1:A:93:LEU:HB2	2.02	0.59
1:A:40:MET:HE2	1:A:199:ALA:HB2	1.83	0.59
1:A:197:GLU:O	1:A:201:ARG:HG2	2.02	0.58
1:A:6:ILE:HG23	1:A:21:LEU:HB3	1.87	0.56
1:A:64:PHE:HB3	1:A:85:GLU:OE2	2.05	0.56
1:A:40:MET:HE2	1:A:199:ALA:CB	2.36	0.56
1:A:99:VAL:HG12	1:A:100:PHE:O	2.06	0.56
1:A:40:MET:HE3	3:A:301:LEU:CG	2.35	0.55
1:A:13:ASN:HD22	1:A:13:ASN:N	2.03	0.55
1:A:137:THR:HG22	1:A:141:MET:HE2	1.88	0.55
1:A:285:LEU:O	1:A:289:ILE:HG12	2.07	0.55
1:A:105:ALA:HB2	1:A:271:HIS:NE2	2.22	0.55
1:A:286:SER:O	1:A:290:LEU:HD13	2.07	0.55
1:A:105:ALA:HA	1:A:129:GLY:O	2.08	0.54
2:A:300:PHE:N	2:A:300:PHE:CD1	2.75	0.54
1:A:134:VAL:CG1	2:A:300:PHE:HZ	2.17	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:12:VAL:HG23	1:A:13:ASN:N	2.23	0.53
1:A:109:ALA:HB1	1:A:223:TRP:CH2	2.44	0.53
1:A:174:VAL:HG22	1:A:214:PHE:HZ	1.73	0.53
1:A:99:VAL:HG12	1:A:100:PHE:N	2.23	0.52
1:A:22:CYS:HB2	1:A:58:VAL:HG22	1.91	0.52
1:A:136:LEU:HD12	1:A:139:LYS:HE2	1.91	0.52
1:A:32:MET:HG2	1:A:59:LEU:HD23	1.91	0.52
1:A:258:ILE:HD12	1:A:258:ILE:N	2.25	0.52
1:A:22:CYS:HB2	1:A:58:VAL:CG2	2.40	0.52
1:A:249:ASN:HD22	1:A:249:ASN:N	2.07	0.51
1:A:167:ASN:HD22	1:A:170:TYR:H	1.59	0.51
1:A:20:LYS:HE2	1:A:42:HIS:NE2	2.26	0.51
1:A:37:GLY:HA3	1:A:38:PRO:C	2.36	0.51
1:A:12:VAL:HG23	1:A:13:ASN:ND2	2.25	0.51
1:A:39:GLY:O	1:A:199:ALA:HA	2.11	0.50
1:A:38:PRO:HD2	1:A:209:ASN:HB2	1.94	0.50
1:A:134:VAL:HB	1:A:135:PRO:HD3	1.94	0.49
1:A:115:ALA:O	1:A:119:GLN:HB3	2.12	0.49
1:A:174:VAL:HG11	2:A:302:PHE:HD1	1.78	0.49
1:A:208:MET:O	1:A:220:ILE:HG12	2.13	0.49
1:A:149:PRO:HG2	1:A:152:TYR:HD1	1.76	0.49
1:A:152:TYR:O	1:A:156:ILE:HG12	2.13	0.48
1:A:12:VAL:HG23	1:A:13:ASN:H	1.79	0.48
1:A:166:GLU:H	1:A:166:GLU:CD	2.21	0.48
2:A:300:PHE:CA	4:A:382:HOH:O	2.61	0.48
3:A:303:LEU:HD22	3:A:303:LEU:C	2.39	0.47
1:A:249:ASN:N	1:A:249:ASN:ND2	2.63	0.47
1:A:141:MET:CE	1:A:216:ILE:CD1	2.86	0.47
1:A:174:VAL:HG11	2:A:302:PHE:CD1	2.50	0.47
1:A:174:VAL:HG22	1:A:214:PHE:CZ	2.50	0.47
1:A:48:LEU:HA	1:A:282:ASN:HD21	1.79	0.46
1:A:115:ALA:HB1	1:A:232:ILE:HD12	1.98	0.46
1:A:99:VAL:CG1	1:A:100:PHE:N	2.79	0.46
1:A:196:LEU:HD23	3:A:301:LEU:HD11	1.98	0.45
1:A:241:GLY:HA3	1:A:270:SER:O	2.15	0.45
1:A:105:ALA:HB2	1:A:271:HIS:CE1	2.52	0.45
1:A:56:ILE:HD12	1:A:289:ILE:HG21	1.98	0.45
1:A:6:ILE:HG22	1:A:21:LEU:O	2.17	0.45
1:A:141:MET:CE	1:A:216:ILE:HD11	2.31	0.45
1:A:40:MET:HE3	3:A:301:LEU:CD1	2.47	0.44
1:A:8:ASN:ND2	1:A:9:TYR:H	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:126:ILE:CD1	1:A:289:ILE:HD11	2.46	0.44
1:A:40:MET:HE3	3:A:301:LEU:HD11	2.01	0.43
1:A:167:ASN:OD1	1:A:168:PRO:HD2	2.18	0.43
1:A:202:ARG:HB3	1:A:202:ARG:NH2	2.33	0.43
1:A:189:PRO:HG2	1:A:192:VAL:HG23	2.00	0.42
1:A:100:PHE:CG	1:A:289:ILE:HD12	2.54	0.42
1:A:134:VAL:N	1:A:135:PRO:CD	2.82	0.42
1:A:38:PRO:HG3	1:A:106:TYR:CE2	2.53	0.42
1:A:99:VAL:O	1:A:122:LEU:HA	2.19	0.42
1:A:6:ILE:CG2	1:A:21:LEU:HB3	2.49	0.42
1:A:112:LEU:O	1:A:116:VAL:HG23	2.20	0.42
1:A:145:ILE:O	1:A:148:LEU:HB2	2.20	0.42
1:A:225:ILE:C	1:A:225:ILE:HD12	2.44	0.42
1:A:149:PRO:HG2	1:A:152:TYR:CD1	2.55	0.41
1:A:149:PRO:O	1:A:150:ALA:C	2.63	0.41
1:A:225:ILE:HD13	1:A:229:ILE:HG23	2.03	0.41
1:A:35:HIS:HD2	1:A:36:GLY:O	2.02	0.41
1:A:40:MET:SD	3:A:301:LEU:CG	3.08	0.41
1:A:91:SER:C	1:A:93:LEU:H	2.29	0.41
1:A:227:ASP:OD2	1:A:228:LYS:HE3	2.21	0.41
1:A:293:LEU:HB2	4:A:336:HOH:O	2.21	0.41
1:A:144:LEU:O	1:A:148:LEU:HD13	2.21	0.41
1:A:171:GLN:NE2	3:A:303:LEU:HD11	2.35	0.40
1:A:125:LEU:O	1:A:236:THR: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	288/293 (98%)	262 (91%)	24 (8%)	2 (1%)	18 14

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	12	VAL
1	A	24	ALA

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	251/254 (99%)	239 (95%)	12 (5%)	23	21

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	ASN
1	A	93	LEU
1	A	101	LEU
1	A	120	ASP
1	A	131	LEU
1	A	166	GLU
1	A	183	LEU
1	A	186	GLU
1	A	202	ARG
1	A	252	ARG
1	A	274	MET
1	A	293	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (14) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	8	ASN
1	A	13	ASN
1	A	35	HIS
1	A	119	GLN
1	A	121	HIS
1	A	142	ASN

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Mol	Chain	Res	Type
1	A	167	ASN
1	A	171	GLN
1	A	175	ASN
1	A	209	ASN
1	A	249	ASN
1	A	255	HIS
1	A	264	HIS
1	A	282	ASN

5.3.3 RNA ⓘ

There are no RNA molecules 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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

4 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).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	LEU	A	303	2	6,8,8	0.90	0	5,10,10	0.23	0
2	PHE	A	300	3	10,11,12	2.14	5 (50%)	8,13,15	0.59	0
3	LEU	A	301	2	6,8,8	1.02	0	5,10,10	1.37	1 (20%)
2	PHE	A	302	3	10,11,12	0.58	0	8,13,15	0.24	0

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	LEU	A	303	2	-	3/8/8/8	-
2	PHE	A	300	3	-	2/5/6/8	0/1/1/1
3	LEU	A	301	2	-	6/8/8/8	-
2	PHE	A	302	3	-	3/5/6/8	0/1/1/1

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	300	PHE	CB-CA	3.81	1.61	1.53
2	A	300	PHE	CE2-CD2	3.42	1.44	1.38
2	A	300	PHE	CB-CG	2.85	1.58	1.51
2	A	300	PHE	CE1-CD1	2.16	1.42	1.38
2	A	300	PHE	CA-N	2.13	1.54	1.48

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	301	LEU	CB-CA-C	-2.69	102.17	110.34

There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	300	PHE	N-CA-CB-CG
2	A	300	PHE	C-CA-CB-CG
2	A	302	PHE	O-C-CA-CB
3	A	301	LEU	C-CA-CB-CG
3	A	301	LEU	OXT-C-CA-N
3	A	301	LEU	CA-CB-CG-CD2
3	A	301	LEU	CA-CB-CG-CD1
2	A	302	PHE	CA-CB-CG-CD2
2	A	302	PHE	CA-CB-CG-CD1
3	A	301	LEU	O-C-CA-N
3	A	301	LEU	N-CA-CB-CG
3	A	303	LEU	C-CA-CB-CG
3	A	303	LEU	CA-CB-CG-CD1
3	A	303	LEU	N-CA-CB-CG

There are no ring outliers.

4 monomers are involved in 23 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	303	LEU	4	0
2	A	300	PHE	8	0
3	A	301	LEU	9	0
2	A	302	PHE	3	0

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	A	290/293 (98%)	0.68	22 (7%) 20 18	21, 33, 52, 59	9 (3%)

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	24	ALA	8.4
1	A	13	ASN	4.5
1	A	12	VAL	3.7
1	A	227	ASP	3.5
1	A	149	PRO	3.2
1	A	167	ASN	3.0
1	A	99	VAL	2.9
1	A	160	GLY	2.8
1	A	168	PRO	2.5
1	A	249	ASN	2.5
1	A	159	TYR	2.4
1	A	148	LEU	2.4
1	A	216	ILE	2.4
1	A	233	LYS	2.2
1	A	4	GLU	2.1
1	A	6	ILE	2.1
1	A	10	ALA	2.1
1	A	161	SER	2.1
1	A	156	ILE	2.1
1	A	171	GLN	2.0
1	A	225	ILE	2.0
1	A	248	PRO	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 oligosaccharides 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, 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($\text{\AA}^2$)	Q<0.9
3	LEU	A	303	9/9	0.40	0.16	36,42,48,49	0
3	LEU	A	301	9/9	0.47	0.17	36,37,41,42	0
2	PHE	A	302	11/12	0.52	0.14	46,46,48,49	0
2	PHE	A	300	11/12	0.64	0.14	38,40,41,44	0

6.5 Other polymers [i](#)

There are no such residues in this entry.