



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 09:55 AM UTC

PDB ID : 3NEL / pdb_00003nel
Title : Aspartyl-tRNA synthetase complexed with aspartic acid
Authors : Schmitt, E.; Moras, D.; Moulinier, L.
Deposited on : 2010-06-09
Resolution : 1.95 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

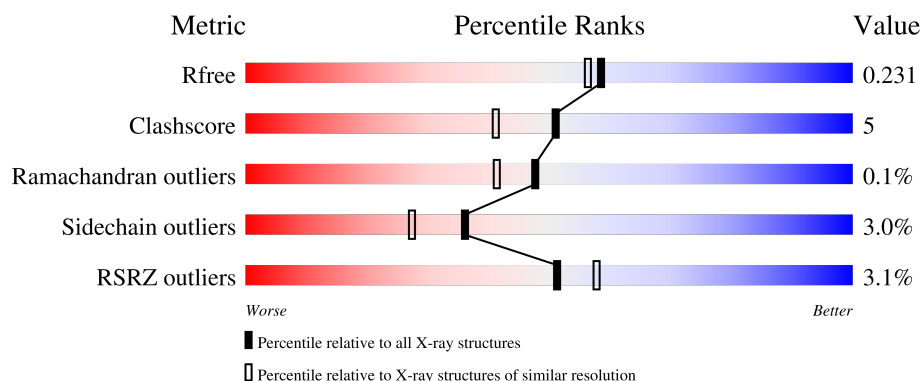
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 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	3494 (1.96-1.96)
Clashscore	190562	3612 (1.96-1.96)
Ramachandran outliers	187476	3587 (1.96-1.96)
Sidechain outliers	187428	3587 (1.96-1.96)
RSRZ outliers	180081	3495 (1.96-1.96)

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.

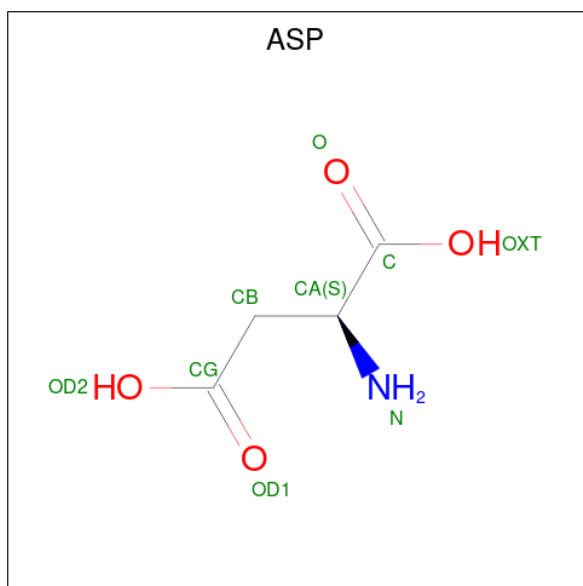
Mol	Chain	Length	Quality of chain
1	A	438	4% 83% 15% .
1	B	438	2% 84% 14% .

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 Aspartyl-tRNA synthetase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	438	Total 3593	C 2316	N 605	O 658	S 14	0	0	0
1	B	438	Total 3593	C 2316	N 605	O 658	S 14	0	0	0

- Molecule 2 is ASPARTIC ACID (CCD ID: ASP) (formula: $\text{C}_4\text{H}_7\text{NO}_4$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			9	4	1	4		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	220	Total O 220 220	0	0

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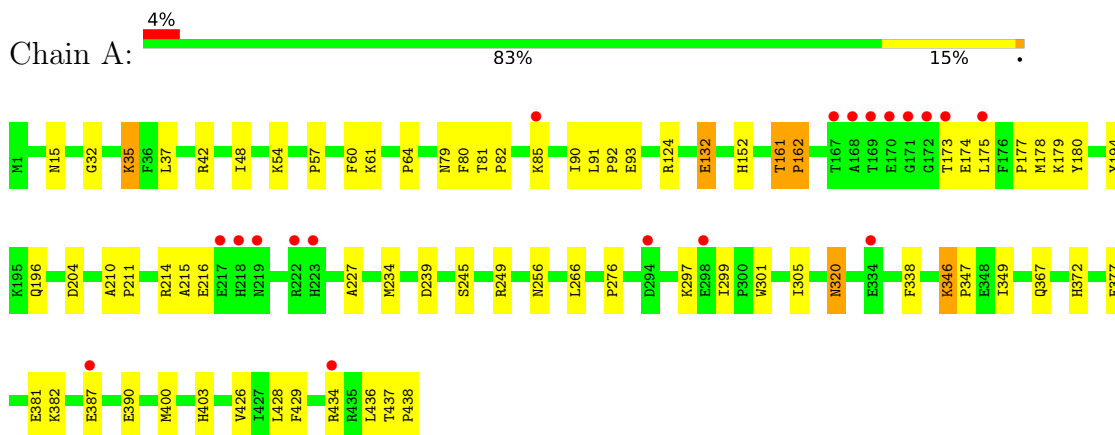
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	210	Total	O	0	0
			210	210		

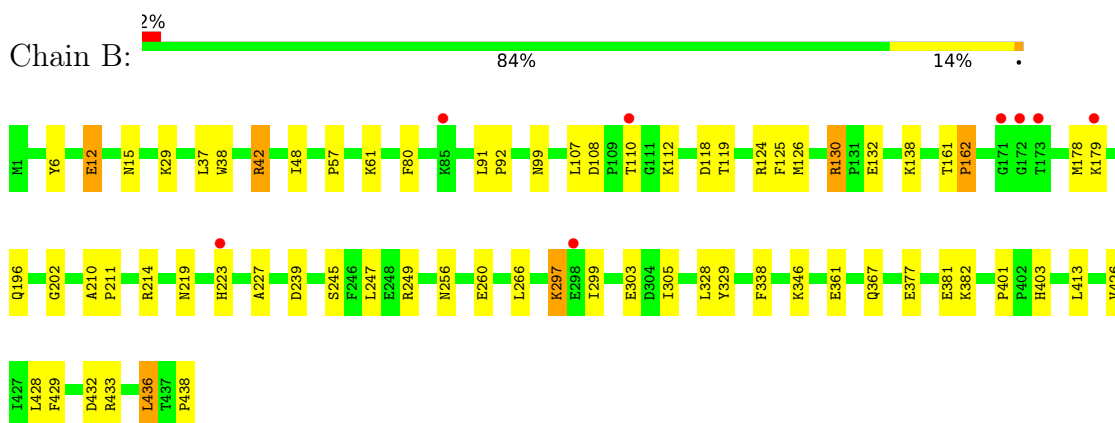
3 Residue-property plots

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: Aspartyl-tRNA synthetase



- Molecule 1: Aspartyl-tRNA synthetase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	124.96Å 125.49Å 87.63Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	24.03 – 1.95 24.03 – 1.95	Depositor EDS
% Data completeness (in resolution range)	(Not available) (24.03-1.95) 95.9 (24.03-1.95)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.05 (at 1.95Å)	Xtriage
Refinement program	X-PLOR 3.851	Depositor
R, R_{free}	0.204 , 0.236 0.202 , 0.231	Depositor DCC
R_{free} test set	4985 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	19.1	Xtriage
Anisotropy	0.459	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 43.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.012 for k,h,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	7625	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.14% 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

5.1 Standard geometry

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	0.48	0/3681	0.95	18/4970 (0.4%)
1	B	0.46	0/3681	0.91	12/4970 (0.2%)
All	All	0.47	0/7362	0.93	30/9940 (0.3%)

There are no bond length outliers.

All (30) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	346	LYS	CA-C-N	7.50	129.22	119.84
1	A	346	LYS	C-N-CA	7.50	129.22	119.84
1	B	346	LYS	CA-C-N	7.39	129.08	119.84
1	B	346	LYS	C-N-CA	7.39	129.08	119.84
1	A	162	PRO	N-CA-C	6.46	121.36	111.15
1	B	91	LEU	CA-C-N	6.17	126.12	119.76
1	B	91	LEU	C-N-CA	6.17	126.12	119.76
1	A	92	PRO	N-CA-C	6.02	119.89	110.80
1	B	138	LYS	N-CA-C	-5.93	104.39	111.69
1	B	428	LEU	N-CA-C	5.84	118.11	111.11
1	A	428	LEU	N-CA-C	5.82	118.12	111.02
1	A	426	VAL	N-CA-C	5.70	117.58	112.17
1	A	91	LEU	CA-C-N	5.64	125.83	119.90
1	A	91	LEU	C-N-CA	5.64	125.83	119.90
1	A	54	LYS	N-CA-C	5.60	120.81	113.30
1	B	426	VAL	N-CA-C	5.60	118.27	112.90
1	A	161	THR	CA-C-N	5.58	125.60	119.90
1	A	161	THR	C-N-CA	5.58	125.60	119.90
1	A	372	HIS	N-CA-C	5.46	120.33	111.37
1	B	92	PRO	N-CA-C	5.46	119.66	111.14
1	B	162	PRO	N-CA-C	5.37	119.52	111.14
1	A	429	PHE	CA-C-N	5.35	125.29	119.78
1	A	429	PHE	C-N-CA	5.35	125.29	119.78
1	B	12	GLU	N-CA-C	5.33	117.84	111.71
1	A	390	GLU	N-CA-C	5.31	116.75	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	305	ILE	N-CA-C	-5.30	100.69	108.54
1	A	32	GLY	N-CA-C	5.25	118.59	112.50
1	A	124	ARG	N-CA-C	5.13	117.61	111.71
1	B	328	LEU	N-CA-C	-5.08	100.62	108.90
1	A	93	GLU	N-CA-C	-5.03	107.70	113.88

There are no chirality outliers.

There are no planarity outliers.

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	A	3593	0	3582	38	0
1	B	3593	0	3582	39	0
2	A	9	0	3	0	0
3	A	220	0	0	4	0
3	B	210	0	0	5	0
All	All	7625	0	7167	74	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 (74) 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:B:110:THR:HG23	1:B:112:LYS:HG2	1.57	0.85
1:A:35:LYS:HD3	1:A:64:PRO:HD3	1.60	0.84
1:B:132:GLU:HG3	3:B:7008:HOH:O	1.83	0.78
1:B:219:ASN:HD21	1:B:433:ARG:H	1.33	0.77
1:A:132:GLU:HG3	3:A:8015:HOH:O	1.89	0.72
1:B:196:GLN:HE21	1:B:403:HIS:HE1	1.39	0.68
1:A:196:GLN:HE21	1:A:403:HIS:HE1	1.38	0.68
1:B:108:ASP:OD1	1:B:110:THR:HG22	1.96	0.66
1:B:256:ASN:O	1:B:260:GLU:HG3	2.02	0.60
1:A:15:ASN:ND2	1:A:80:PHE:H	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:ASN:ND2	1:B:432:ASP:HB2	2.19	0.57
1:A:15:ASN:HD21	1:A:80:PHE:H	1.52	0.57
1:A:214:ARG:HD3	3:A:3052:HOH:O	2.04	0.56
1:B:110:THR:CG2	1:B:112:LYS:HG2	2.30	0.56
1:B:6:TYR:CE2	1:B:42:ARG:HD2	2.40	0.56
1:B:107:LEU:HD21	1:B:119:THR:HG22	1.87	0.56
1:A:301:TRP:HZ2	1:A:349:ILE:HD11	1.71	0.56
1:B:338:PHE:HB3	1:B:382:LYS:HG3	1.86	0.55
1:A:400:MET:H	1:B:99:ASN:ND2	2.04	0.55
1:A:35:LYS:HE2	1:A:60:PHE:CZ	2.41	0.55
1:B:297:LYS:HD2	1:B:299:ILE:HD11	1.89	0.53
1:B:29:LYS:HD2	1:B:38:TRP:CZ3	2.44	0.52
1:B:303:GLU:HB2	3:B:7027:HOH:O	2.11	0.51
1:B:118:ASP:HB2	3:B:4030:HOH:O	2.08	0.51
1:A:79:ASN:ND2	3:A:8005:HOH:O	2.42	0.51
1:A:174:GLU:HA	1:A:215:ALA:O	2.11	0.51
1:A:48:ILE:HD13	1:A:90:ILE:HB	1.94	0.50
1:B:57:PRO:O	1:B:61:LYS:HG2	2.12	0.50
1:B:132:GLU:CD	1:B:132:GLU:H	2.19	0.49
1:B:161:THR:HB	1:B:162:PRO:HD2	1.95	0.49
1:B:401:PRO:O	1:B:403:HIS:HD2	1.96	0.48
1:B:29:LYS:HD2	1:B:38:TRP:HZ3	1.78	0.48
1:A:162:PRO:HG2	1:A:194:TYR:CZ	2.50	0.47
1:B:15:ASN:ND2	1:B:80:PHE:H	2.12	0.47
1:A:177:PRO:HD2	3:B:4077:HOH:O	2.15	0.46
1:B:211:PRO:HA	1:B:227:ALA:O	2.15	0.46
1:B:239:ASP:HA	1:B:367:GLN:HE22	1.81	0.46
1:A:239:ASP:HA	1:A:367:GLN:NE2	2.30	0.46
1:B:214:ARG:HD2	3:B:5088:HOH:O	2.16	0.46
1:A:57:PRO:O	1:A:61:LYS:HG3	2.15	0.46
1:B:108:ASP:CG	1:B:110:THR:HG22	2.40	0.46
1:A:377:GLU:O	1:A:381:GLU:HG3	2.16	0.46
1:B:245:SER:O	1:B:249:ARG:HG3	2.16	0.45
1:A:180:TYR:CD2	1:B:436:LEU:HG	2.52	0.45
1:A:437:THR:HA	1:A:438:PRO:C	2.42	0.44
1:A:132:GLU:H	1:A:132:GLU:CD	2.26	0.44
1:A:210:ALA:HB1	1:A:211:PRO:HD2	2.00	0.44
1:A:338:PHE:HB3	1:A:382:LYS:HG3	1.99	0.44
1:B:210:ALA:HB1	1:B:211:PRO:HD2	2.00	0.44
1:B:239:ASP:HA	1:B:367:GLN:NE2	2.33	0.43
1:B:178:MET:HE3	1:B:178:MET:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:204:ASP:O	1:A:234:MET:HA	2.18	0.43
1:B:196:GLN:HE21	1:B:403:HIS:CE1	2.27	0.43
1:B:429:PHE:HD2	1:B:438:PRO:HG2	1.84	0.43
1:A:175:LEU:O	1:A:177:PRO:HD3	2.18	0.42
1:A:42:ARG:HB3	1:B:202:GLY:O	2.18	0.42
1:A:81:THR:HA	1:A:82:PRO:HD3	1.90	0.42
1:A:211:PRO:HA	1:A:227:ALA:O	2.18	0.42
1:A:320:ASN:HD22	1:A:320:ASN:N	2.17	0.42
1:A:152:HIS:HD2	3:A:2020:HOH:O	2.02	0.42
1:A:178:MET:HG2	1:A:179:LYS:N	2.35	0.42
1:A:196:GLN:HE21	1:A:403:HIS:CE1	2.28	0.42
1:A:256:ASN:HD21	1:A:276:PRO:HD2	1.84	0.42
1:A:346:LYS:N	1:A:347:PRO:HD3	2.34	0.42
1:B:377:GLU:O	1:B:381:GLU:HG3	2.20	0.42
1:A:37:LEU:HB3	1:A:48:ILE:HB	2.03	0.41
1:B:37:LEU:HB3	1:B:48:ILE:HB	2.02	0.41
1:B:125:PHE:CE1	1:B:126:MET:HG2	2.56	0.41
1:A:245:SER:O	1:A:249:ARG:HG3	2.20	0.41
1:B:130:ARG:HH11	1:B:130:ARG:HG2	1.85	0.41
1:A:299:ILE:HD13	1:A:305:ILE:HA	2.02	0.40
1:A:161:THR:HB	1:A:162:PRO:HD2	2.04	0.40
1:B:219:ASN:HD21	1:B:433:ARG:N	2.11	0.40
1:A:239:ASP:HA	1:A:367:GLN:HE22	1.85	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	A	436/438 (100%)	425 (98%)	10 (2%)	1 (0%)	43	36
1	B	436/438 (100%)	427 (98%)	9 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	872/876 (100%)	852 (98%)	19 (2%)	1 (0%)	48 41

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	173	THR

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	386/386 (100%)	376 (97%)	10 (3%)	40 33
1	B	386/386 (100%)	373 (97%)	13 (3%)	32 23
All	All	772/772 (100%)	749 (97%)	23 (3%)	36 27

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	35	LYS
1	A	85	LYS
1	A	132	GLU
1	A	216	GLU
1	A	266	LEU
1	A	297	LYS
1	A	320	ASN
1	A	387	GLU
1	A	434	ARG
1	A	436	LEU
1	B	12	GLU
1	B	42	ARG
1	B	124	ARG
1	B	130	ARG
1	B	179	LYS
1	B	223	HIS
1	B	247	LEU

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Mol	Chain	Res	Type
1	B	266	LEU
1	B	297	LYS
1	B	329	TYR
1	B	361	GLU
1	B	413	LEU
1	B	436	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (28) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	15	ASN
1	A	79	ASN
1	A	152	HIS
1	A	192	GLN
1	A	196	GLN
1	A	256	ASN
1	A	261	HIS
1	A	320	ASN
1	A	367	GLN
1	A	370	HIS
1	A	403	HIS
1	A	416	GLN
1	B	15	ASN
1	B	79	ASN
1	B	99	ASN
1	B	152	HIS
1	B	192	GLN
1	B	218	HIS
1	B	219	ASN
1	B	223	HIS
1	B	225	ASN
1	B	253	HIS
1	B	256	ASN
1	B	261	HIS
1	B	262	ASN
1	B	322	ASN
1	B	367	GLN
1	B	403	HIS

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 ⓘ

1 ligand 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	ASP	A	500	-	7,8,8	1.04	1 (14%)	6,10,10	0.93	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
2	ASP	A	500	-	-	1/8/8/8	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	500	ASP	OXT-C	-2.06	1.24	1.30

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	500	ASP	CA-CB-CG-OD1

There are no ring outliers.

No monomer is involved in short contacts.

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	A	438/438 (100%)	-0.05	19 (4%) 40 46	9, 18, 41, 65	0
1	B	438/438 (100%)	-0.12	8 (1%) 67 75	8, 19, 36, 52	0
All	All	876/876 (100%)	-0.09	27 (3%) 51 58	8, 19, 38, 65	0

All (27) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	171	GLY	5.5
1	A	167	THR	4.6
1	A	173	THR	4.3
1	A	169	THR	4.2
1	A	168	ALA	4.1
1	B	172	GLY	4.0
1	A	223	HIS	3.6
1	B	110	THR	3.6
1	A	218	HIS	3.4
1	A	172	GLY	3.3
1	A	170	GLU	2.8
1	B	85	LYS	2.8
1	A	334	GLU	2.6
1	A	217	GLU	2.6
1	A	434	ARG	2.5
1	B	179	LYS	2.4
1	A	222	ARG	2.4
1	A	387	GLU	2.4
1	B	173	THR	2.4
1	B	223	HIS	2.4
1	A	294	ASP	2.3
1	A	175	LEU	2.3
1	A	85	LYS	2.2
1	B	171	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	219	ASN	2.1
1	B	298	GLU	2.1
1	A	298	GLU	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(Å ²)	Q<0.9
2	ASP	A	500	9/9	0.92	0.08	18,22,25,28	0

6.5 Other polymers [i](#)

There are no such residues in this entry.