



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 02:34 AM UTC

PDB ID : 5DP0 / pdb_00005dp0
Title : Crystal Structure of the ER-alpha Ligand-binding Domain in complex with a 4-fluorophenylamino-substituted triaryl-ethylene derivative 4,4'-(2-{3-[(4-fluorophenyl)amino]phenyl}ethene-1,1-diyl)diphenol
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Deposited on : 2015-09-11
Resolution : 2.38 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
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
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)

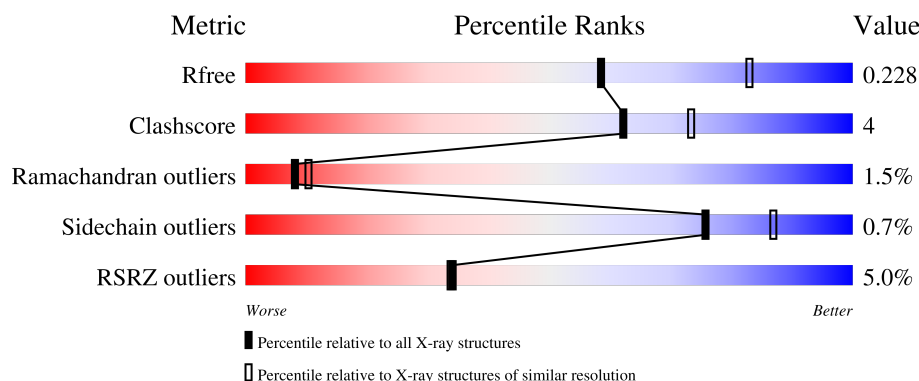
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.38 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	7164 (2.40-2.36)
Clashscore	190562	7722 (2.40-2.36)
Ramachandran outliers	187476	7626 (2.40-2.36)
Sidechain outliers	187428	7627 (2.40-2.36)
RSRZ outliers	180081	7170 (2.40-2.36)

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	257	5% 78% 11% 11%
1	B	257	5% 79% 10% 10%
2	C	14	50% 14% 36%

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Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
 Validation Pipeline (wwPDB-VP) : 2.49

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Mol	Chain	Length	Quality of chain
2	D	14	43% 21% 36%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3871 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 Estrogen receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	229	Total	C	N	O	S	0	1	0
			1774	1137	304	315	18			
1	B	232	Total	C	N	O	S	0	0	0
			1788	1146	303	321	18			

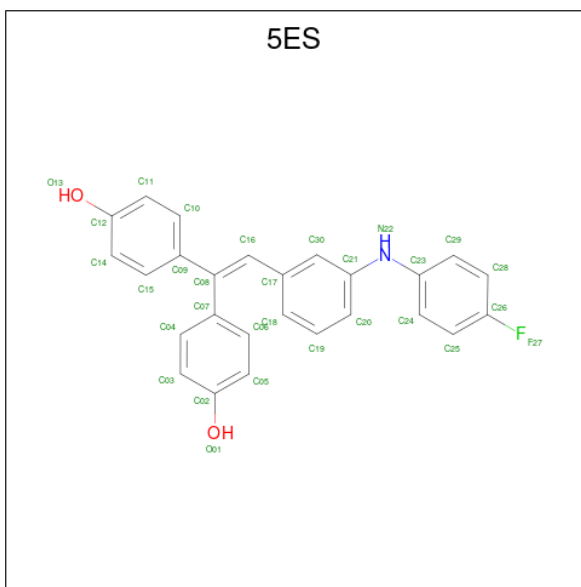
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	537	SER	TYR	engineered mutation	UNP P03372
B	537	SER	TYR	engineered mutation	UNP P03372

- Molecule 2 is a protein called Nuclear receptor coactivator 2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	C	9	Total	C	N	O	0	0	0
			75	48	15	12			
2	D	9	Total	C	N	O	0	0	0
			79	51	16	12			

- Molecule 3 is 4,4'-(2-{3-[(4-fluorophenyl)amino]phenyl}ethene-1,1-diyl)diphenol (CCD ID: 5ES) (formula: C₂₆H₂₀FNO₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	F	N	O	0	0
			30	26	1	1	2		
3	B	1	Total	C	F	N	O	0	0
			30	26	1	1	2		

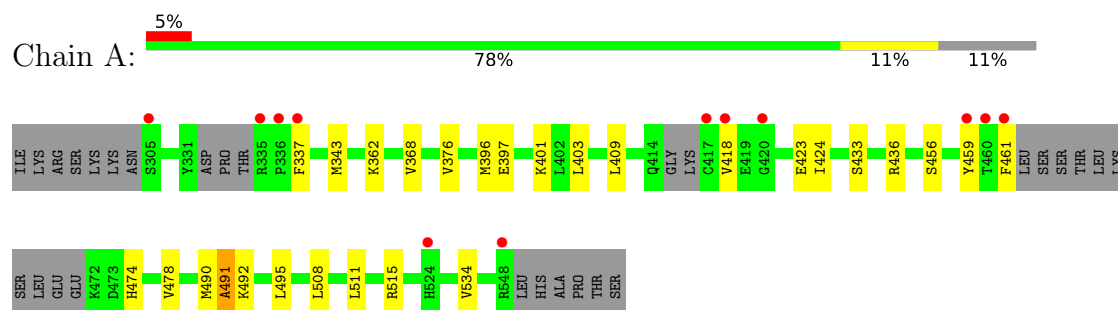
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	38	Total	O	0	0
			38	38		
4	B	52	Total	O	0	0
			52	52		
4	C	4	Total	O	0	0
			4	4		
4	D	1	Total	O	0	0
			1	1		

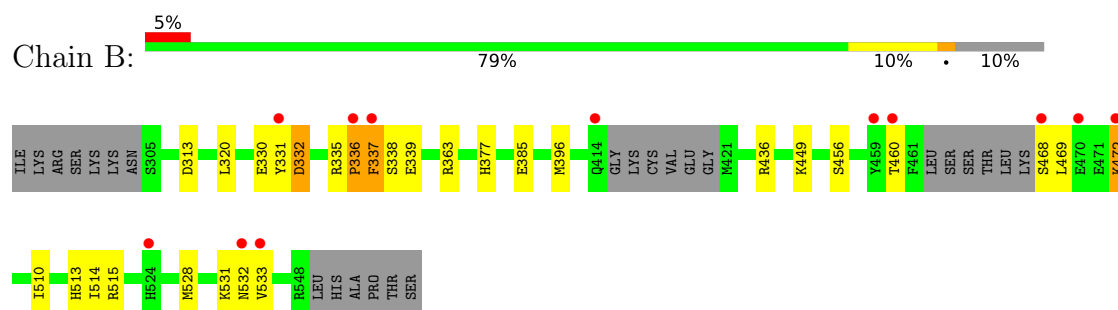
3 Residue-property plots [i](#)

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: Estrogen receptor



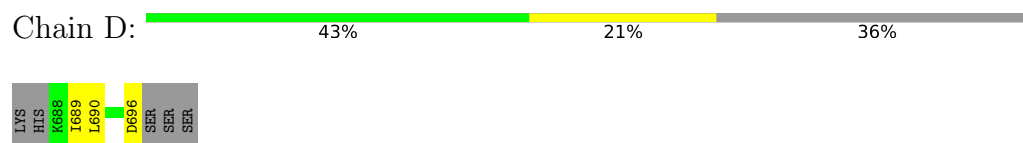
• Molecule 1: Estrogen receptor



• Molecule 2: Nuclear receptor coactivator 2



• Molecule 2: Nuclear receptor coactivator 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	56.03Å 83.08Å 58.88Å 90.00° 111.06° 90.00°	Depositor
Resolution (Å)	41.11 – 2.38 41.11 – 2.38	Depositor EDS
% Data completeness (in resolution range)	88.3 (41.11-2.38) 88.0 (41.11-2.38)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.35 (at 2.39Å)	Xtriage
Refinement program	PHENIX 1.8.2_1309	Depositor
R, R_{free}	0.189 , 0.238 (Not available) , 0.228	Depositor DCC
R_{free} test set	1860 reflections (9.20%)	wwPDB-VP
Wilson B-factor (Å ²)	34.1	Xtriage
Anisotropy	0.052	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 50.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3871	wwPDB-VP
Average B, all atoms (Å ²)	49.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.33% 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

Bond lengths and bond angles in the following residue types are not validated in this section: 5ES

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	0/1804	0.72	1/2442 (0.0%)
1	B	0.39	0/1821	0.75	2/2470 (0.1%)
2	C	0.87	0/75	0.79	0/100
2	D	1.00	0/79	1.17	1/104 (1.0%)
All	All	0.43	0/3779	0.75	4/5116 (0.1%)

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	B	0	2
2	C	0	1
All	All	0	3

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
2	D	689	ILE	N-CA-C	6.54	117.22	110.36
1	B	472	LYS	N-CA-C	-6.04	97.93	110.80
1	A	491	ALA	N-CA-C	-5.66	102.66	110.35
1	B	528	MET	N-CA-C	-5.13	105.77	111.36

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	336	PRO	Peptide
1	B	337	PHE	Peptide
2	C	695	GLN	Peptide

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	1774	0	1775	14	0
1	B	1788	0	1774	16	0
2	C	75	0	77	1	0
2	D	79	0	88	2	0
3	A	30	0	0	0	0
3	B	30	0	0	0	0
4	A	38	0	0	1	0
4	B	52	0	0	3	0
4	C	4	0	0	1	0
4	D	1	0	0	0	0
All	All	3871	0	3714	31	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 4.

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)
1:B:460:THR:HG23	4:B:720:HOH:O	1.78	0.83
1:B:377:HIS:NE2	1:B:460:THR:OG1	2.19	0.76
1:B:313:ASP:O	4:B:701:HOH:O	2.04	0.75
1:A:401:LYS:O	4:A:701:HOH:O	2.10	0.68
1:A:491:ALA:O	1:A:492:LYS:HB3	1.98	0.62
1:A:490:MET:HB3	1:A:495:LEU:HD12	1.83	0.60
1:B:338:SER:OG	1:B:339:GLU:N	2.36	0.59
1:A:433:SER:HA	1:A:436:ARG:NH2	2.17	0.58
1:A:362:LYS:NZ	2:D:696:ASP:O	2.36	0.57
1:A:403:LEU:HD12	1:A:409:LEU:HD13	1.85	0.56
1:B:510:ILE:HA	1:B:513:HIS:HD2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:468:SER:OG	1:B:469:LEU:N	2.43	0.51
1:B:385:GLU:HG2	1:B:514:ILE:HG22	1.93	0.50
1:A:376:VAL:HG13	2:D:690:LEU:HD23	1.92	0.50
1:B:396:MET:O	1:B:436:ARG:NH1	2.43	0.50
1:A:456:SER:HA	1:A:515:ARG:NH2	2.27	0.48
1:B:449:LYS:NZ	4:B:706:HOH:O	2.43	0.48
1:A:343:MET:HB2	1:A:534:VAL:HG21	1.97	0.46
2:C:688:LYS:N	4:C:702:HOH:O	2.51	0.44
1:B:330:GLU:O	1:B:332:ASP:N	2.50	0.44
1:B:510:ILE:HA	1:B:513:HIS:CD2	2.52	0.43
1:A:459:TYR:C	1:A:461:PHE:H	2.26	0.43
1:B:396:MET:HE3	1:B:436:ARG:HA	2.01	0.42
1:B:456:SER:HA	1:B:515:ARG:NH2	2.33	0.42
1:A:396:MET:HE3	1:A:436:ARG:HA	2.01	0.42
1:B:531:LYS:O	1:B:533:VAL:N	2.53	0.42
1:A:474:HIS:O	1:A:478:VAL:HG23	2.20	0.42
1:A:423:GLU:HG3	1:A:424:ILE:N	2.35	0.42
1:B:335:ARG:HA	1:B:336:PRO:HD3	1.80	0.41
1:A:508:LEU:O	1:A:511:LEU:HB2	2.21	0.41
1:B:320:LEU:HD23	1:B:320:LEU:HA	1.90	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	222/257 (86%)	215 (97%)	5 (2%)	2 (1%)	14	20
1	B	226/257 (88%)	217 (96%)	4 (2%)	5 (2%)	5	5
2	C	7/14 (50%)	7 (100%)	0	0	100	100
2	D	7/14 (50%)	7 (100%)	0	0	100	100
All	All	462/542 (85%)	446 (96%)	9 (2%)	7 (2%)	8	10

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	472	LYS
1	B	532	ASN
1	B	331	TYR
1	B	337	PHE
1	A	337	PHE
1	A	418	VAL
1	B	332	ASP

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	A	192/232 (83%)	190 (99%)	2 (1%)	68	82
1	B	193/232 (83%)	192 (100%)	1 (0%)	81	90
2	C	8/14 (57%)	8 (100%)	0	100	100
2	D	9/14 (64%)	9 (100%)	0	100	100
All	All	402/492 (82%)	399 (99%)	3 (1%)	76	87

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

Mol	Chain	Res	Type
1	A	368	VAL
1	A	397	GLU
1	B	363	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	356	HIS
1	A	519	ASN
1	B	455	ASN
1	B	476	HIS
1	B	488	HIS

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Mol	Chain	Res	Type
1	B	498	GLN
1	B	502	GLN
1	B	513	HIS
1	B	519	ASN

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

2 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	5ES	A	601	-	33,33,33	2.79	16 (48%)	45,45,45	0.94	3 (6%)
3	5ES	B	601	-	33,33,33	2.89	19 (57%)	45,45,45	1.13	3 (6%)

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	5ES	A	601	-	-	2/16/16/16	0/4/4/4
3	5ES	B	601	-	-	2/16/16/16	0/4/4/4

All (35) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	601	5ES	C04-C07	-8.77	1.26	1.39
3	A	601	5ES	C04-C07	-6.71	1.29	1.39
3	A	601	5ES	C07-C08	5.55	1.57	1.49
3	B	601	5ES	C07-C08	4.99	1.56	1.49
3	B	601	5ES	C05-C02	-4.79	1.30	1.39
3	A	601	5ES	C28-C26	4.76	1.46	1.37
3	A	601	5ES	C14-C12	4.74	1.47	1.39
3	A	601	5ES	C17-C16	4.72	1.55	1.46
3	A	601	5ES	C11-C10	4.61	1.46	1.38
3	B	601	5ES	C28-C26	3.48	1.44	1.37
3	A	601	5ES	C15-C09	3.47	1.44	1.39
3	B	601	5ES	F27-C26	-3.44	1.28	1.36
3	B	601	5ES	C17-C16	3.39	1.53	1.46
3	B	601	5ES	C03-C02	-3.33	1.32	1.39
3	A	601	5ES	C05-C02	-3.31	1.32	1.39
3	A	601	5ES	C19-C20	3.29	1.44	1.38
3	B	601	5ES	O13-C12	-3.27	1.29	1.37
3	A	601	5ES	C24-C23	3.16	1.44	1.39
3	B	601	5ES	C14-C12	3.15	1.44	1.39
3	B	601	5ES	C29-C28	-3.12	1.33	1.38
3	A	601	5ES	C30-C17	3.08	1.45	1.39
3	B	601	5ES	C11-C12	-2.98	1.33	1.39
3	B	601	5ES	C11-C10	2.89	1.43	1.38
3	B	601	5ES	C29-C23	-2.53	1.35	1.39
3	B	601	5ES	C15-C14	-2.46	1.34	1.38
3	B	601	5ES	C06-C05	-2.38	1.35	1.38
3	A	601	5ES	O01-C02	2.34	1.42	1.37
3	B	601	5ES	C25-C26	-2.33	1.32	1.37
3	B	601	5ES	C24-C23	2.19	1.42	1.39
3	A	601	5ES	C04-C03	2.19	1.42	1.38
3	A	601	5ES	C29-C28	-2.15	1.35	1.38
3	B	601	5ES	C19-C20	2.12	1.42	1.38
3	A	601	5ES	F27-C26	-2.09	1.31	1.36
3	A	601	5ES	C23-N22	2.06	1.45	1.40
3	B	601	5ES	C21-N22	-2.04	1.36	1.40

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	601	5ES	C23-N22-C21	-3.00	118.86	128.22
3	A	601	5ES	C23-N22-C21	-2.55	120.28	128.22
3	B	601	5ES	C28-C26-C25	-2.43	119.61	122.80
3	B	601	5ES	C29-C28-C26	2.29	120.73	118.38
3	A	601	5ES	C07-C08-C16	-2.14	116.97	121.96
3	A	601	5ES	C28-C26-C25	-2.01	120.17	122.80

There are no chirality outliers.

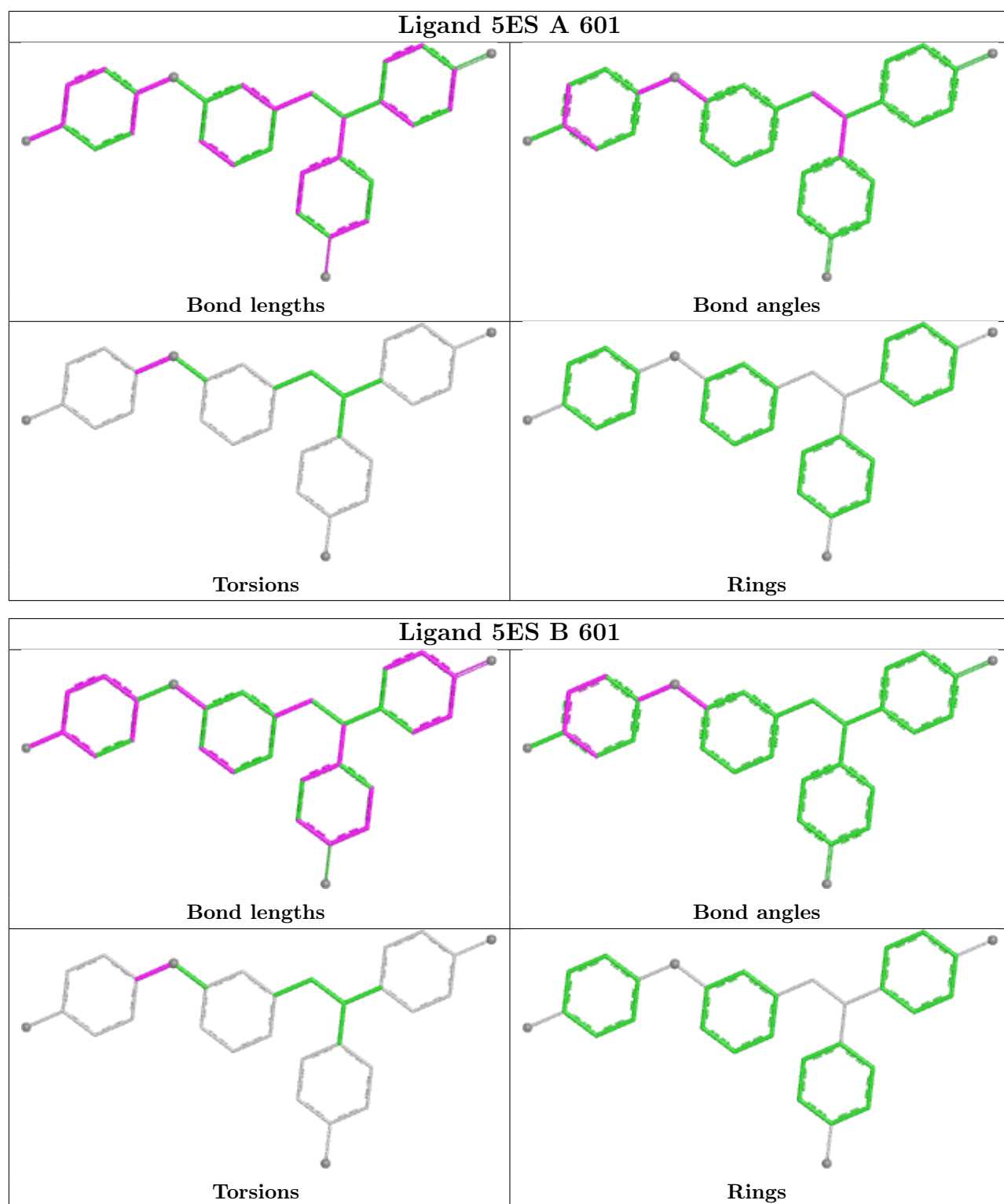
All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	601	5ES	C29-C23-N22-C21
3	A	601	5ES	C24-C23-N22-C21
3	B	601	5ES	C29-C23-N22-C21
3	B	601	5ES	C24-C23-N22-C21

There are no ring outliers.

No monomer is involved in short contacts.

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 than 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 any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. 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 ⓘ

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	229/257 (89%)	0.22	12 (5%) 33 32	22, 47, 87, 127	1 (0%)
1	B	232/257 (90%)	0.18	12 (5%) 33 32	24, 46, 90, 122	0
2	C	9/14 (64%)	0.27	0 100 100	49, 57, 75, 77	0
2	D	9/14 (64%)	0.37	0 100 100	55, 59, 74, 79	0
All	All	479/542 (88%)	0.20	24 (5%) 34 34	22, 47, 88, 127	1 (0%)

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	417	CYS	4.7
1	A	420	GLY	3.6
1	B	524	HIS	3.6
1	B	331	TYR	3.6
1	B	414	GLN	3.4
1	B	459	TYR	3.2
1	A	336	PRO	3.2
1	B	472	LYS	3.1
1	A	418	VAL	3.0
1	A	459	TYR	2.8
1	A	461	PHE	2.8
1	B	460	THR	2.8
1	B	533	VAL	2.8
1	A	460	THR	2.8
1	A	305	SER	2.7
1	B	337	PHE	2.6
1	B	470	GLU	2.6
1	B	532	ASN	2.4
1	A	524	HIS	2.4
1	B	336	PRO	2.3
1	A	335	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	548	ARG	2.1
1	A	337	PHE	2.1
1	B	468	SER	2.1

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](#)

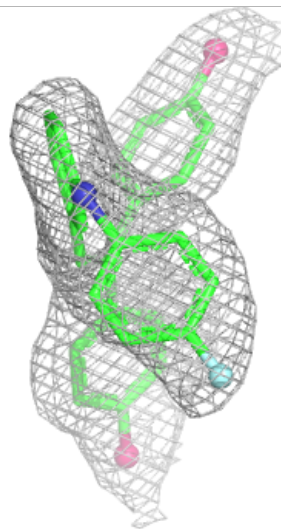
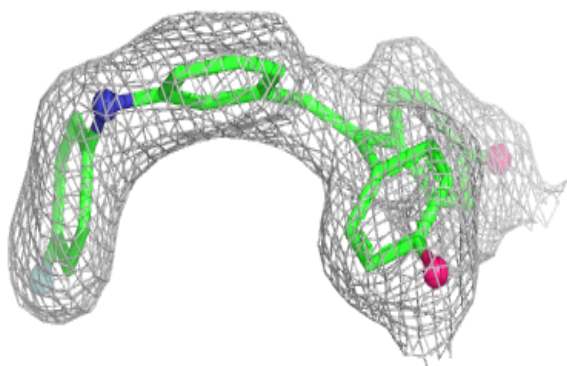
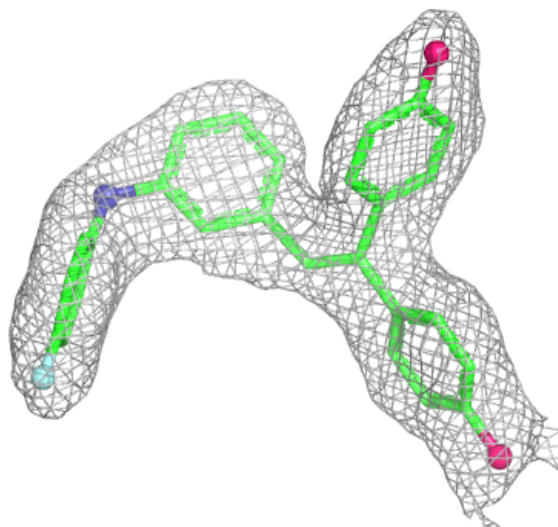
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	5ES	A	601	30/30	0.95	0.09	23,31,60,75	0
3	5ES	B	601	30/30	0.96	0.08	19,32,69,82	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.

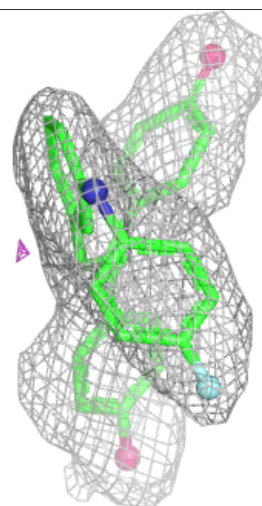
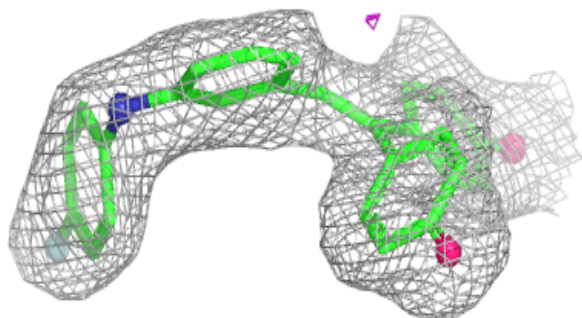
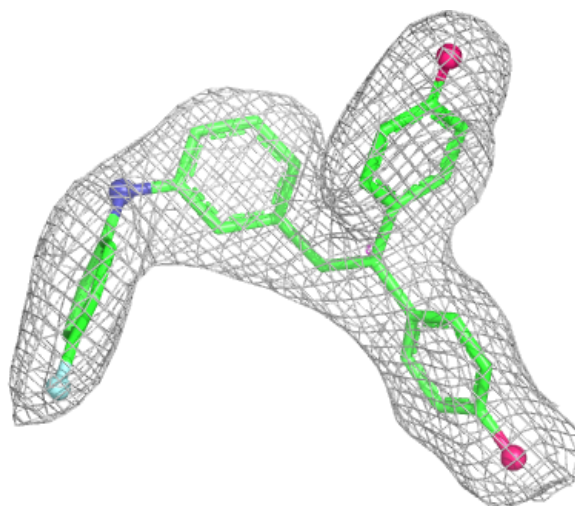
Electron density around 5ES A 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around 5ES B 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers ⓘ

There are no such residues in this entry.