

# wwPDB X-ray Structure Validation Summary Report (i)

#### Feb 14, 2024 – 10:59 AM EST

PDB ID : 3MAU

Title: Crystal structure of StSPL in complex with phosphoethanolamine

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Deposited on : 2010-03-24

Resolution : 2.90 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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: 2.36

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$ 

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

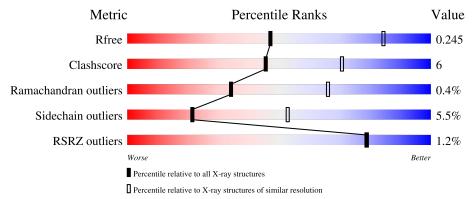
Validation Pipeline (wwPDB-VP) : 2.36

## 1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.90 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	Similar resolution
Metric	$(\#  ext{Entries})$	$(\#  ext{Entries},  ext{ resolution range}( ext{Å}))$
$R_{free}$	130704	1957 (2.90-2.90)
Clashscore	141614	2172 (2.90-2.90)
Ramachandran outliers	138981	2115 (2.90-2.90)
Sidechain outliers	138945	2117 (2.90-2.90)
RSRZ outliers	127900	1906 (2.90-2.90)

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			
1	A	514	72%	14%	·	12%
1	В	514	71%	14%		12%
1	С	514	71%	16%		12%
1	D	514	72%	14%		12%



## 2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 13842 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 sphingosine-1-phosphate lyase.

Mol	Chain	Residues		Atoms				ZeroOcc	AltConf	Trace
1	۸	452	Total	С	N	О	S	0	1	0
1	A	452	3429	2195	600	621	13	0	1	
1	В	451	Total	С	N	О	S	0	2	0
1	Б	491	3429	2195	602	619	13	0		
1	С	452	Total	С	N	О	S	0	0	0
1		452	3423	2191	599	620	13	0	0	
1	D	452	Total	С	N	О	S	0	0	0
1	ש	402	3423	2191	599	620	13	U		

There are 36 discrepancies between the modelled and reference sequences:

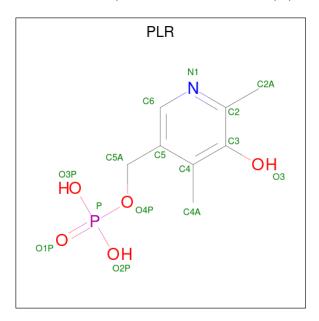
Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	expression tag	UNP Q67PY4
A	1	PRO	-	expression tag	UNP Q67PY4
A	311	ALA	LYS	engineered mutation	UNP Q67PY4
A	508	HIS	-	expression tag	UNP Q67PY4
A	509	HIS	-	expression tag	UNP Q67PY4
A	510	HIS	-	expression tag	UNP Q67PY4
A	511	HIS	-	expression tag	UNP Q67PY4
A	512	HIS	-	expression tag	UNP Q67PY4
A	513	HIS	-	expression tag	UNP Q67PY4
В	0	MET	-	expression tag	UNP Q67PY4
В	1	PRO	-	expression tag	UNP Q67PY4
В	311	ALA	LYS	engineered mutation	UNP Q67PY4
В	508	HIS	-	expression tag	UNP Q67PY4
В	509	HIS	-	expression tag	UNP Q67PY4
В	510	HIS	-	expression tag	UNP Q67PY4
В	511	HIS	-	expression tag	UNP Q67PY4
В	512	HIS	-	expression tag	UNP Q67PY4
В	513	HIS	-	expression tag	UNP Q67PY4
С	0	MET	-	expression tag	UNP Q67PY4
С	1	PRO	-	expression tag	UNP Q67PY4
С	311	ALA	LYS	engineered mutation	UNP Q67PY4



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Chain	Residue	Modelled	Actual	Comment	Reference
С	508	HIS	=	expression tag	UNP Q67PY4
С	509	HIS	-	expression tag	UNP Q67PY4
С	510	HIS	-	expression tag	UNP Q67PY4
С	511	HIS	-	expression tag	UNP Q67PY4
С	512	HIS	-	expression tag	UNP Q67PY4
С	513	HIS	1	expression tag	UNP Q67PY4
D	0	MET	-	expression tag	UNP Q67PY4
D	1	PRO	-	expression tag	UNP Q67PY4
D	311	ALA	LYS	engineered mutation	UNP Q67PY4
D	508	HIS	-	expression tag	UNP Q67PY4
D	509	HIS	-	expression tag	UNP Q67PY4
D	510	HIS		expression tag	UNP Q67PY4
D	511	HIS	-	expression tag	UNP Q67PY4
D	512	HIS		expression tag	UNP Q67PY4
D	513	HIS	-	expression tag	UNP Q67PY4

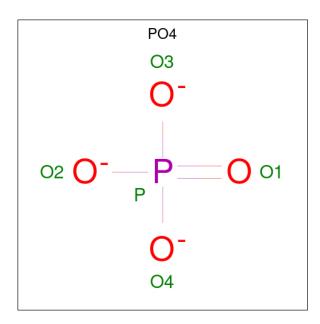
• Molecule 2 is (5-HYDROXY-4,6-DIMETHYLPYRIDIN-3-YL)METHYL DIHYDROGEN PHOSPHATE (three-letter code: PLR) (formula:  $C_8H_{12}NO_5P$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
9	Λ	1	Total	С	N	О	Р	0	0
2	A	1	15	8	1	5	1		U

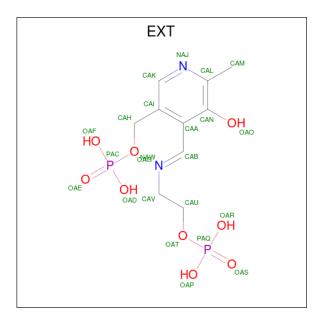
 $\bullet$  Molecule 3 is PHOSPHATE ION (three-letter code: PO4) (formula: O<sub>4</sub>P).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total 5	O 4	P 1	0	0

• Molecule 4 is  $\{5-\text{hydroxy-6-methyl-4-[(E)-\{[2-(phosphonooxy)ethyl]imino}\}methyl]pyridin-3-yl}methyl dihydrogen phosphate (three-letter code: EXT) (formula: <math>C_{10}H_{16}N_2O_9P_2$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf				
1	R	1	Total	С	N	О	Р	0	0			
4		1	23	10	2	9	2	U	0			
1	C	С	C	C	1	Total	С	N	О	Р	0	0
4			23	10	2	9	2	U	0			



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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
4	D	1	Total	С	N	О	Р	0	0
4	D	1	23	10	2	9	2	U	

#### • Molecule 5 is water.

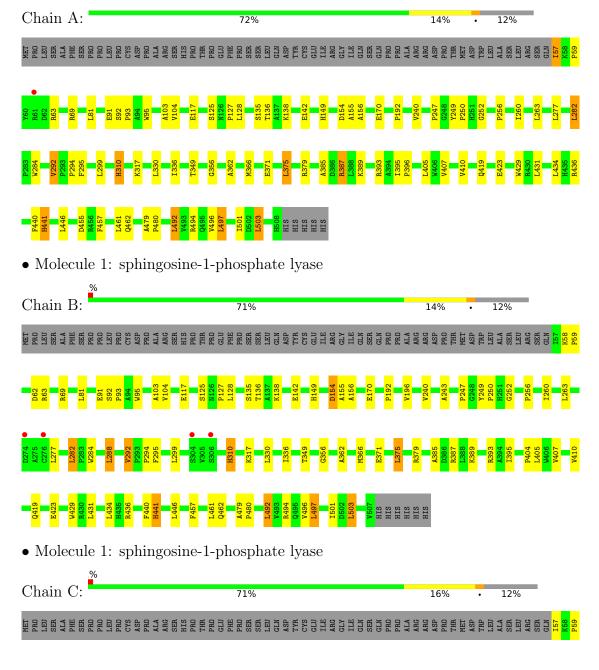
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	12	Total O 12 12	0	0
5	В	17	Total O 17 17	0	0
5	С	10	Total O 10 10	0	0
5	D	10	Total O 10 10	0	0



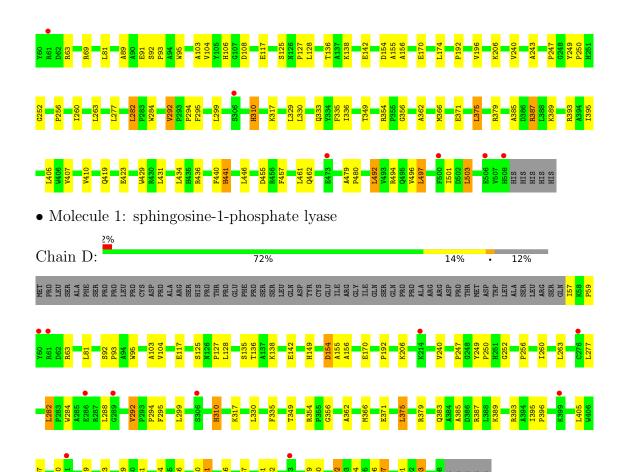
## 3 Residue-property plots (i)

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: sphingosine-1-phosphate lyase









# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants	64.36Å 243.45Å 280.67Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.89 - 2.90	Depositor
resolution (A)	29.89 - 2.90	EDS
% Data completeness	97.7 (29.89-2.90)	Depositor
(in resolution range)	97.8 (29.89-2.90)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.13	Depositor
$< I/\sigma(I) > 1$	2.48 (at 2.90Å)	Xtriage
Refinement program	PHENIX 1.4_29	Depositor
P. P.	0.229 , 0.252	Depositor
$R, R_{free}$	0.222 , $0.245$	DCC
$R_{free}$ test set	2421 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	67.5	Xtriage
Anisotropy	0.477	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.27 , 12.4	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.42, < L^2>=0.24$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	13842	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	71.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.72% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical values of <|L|>,  $<L^2>$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



<sup>&</sup>lt;sup>1</sup>Intensities 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: PO4, PLR, EXT

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		
MIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.30	0/3530	0.62	8/4824 (0.2%)	
1	В	0.30	0/3532	0.71	9/4825~(0.2%)	
1	С	0.29	0/3521	0.62	8/4812 (0.2%)	
1	D	0.30	0/3521	0.61	8/4812 (0.2%)	
All	All	0.30	0/14104	0.64	33/19273~(0.2%)	

There are no bond length outliers.

The worst 5 of 33 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	В	393	ARG	NE-CZ-NH1	-18.07	111.26	120.30
1	В	393	ARG	NE-CZ-NH2	17.57	129.08	120.30
1	D	387	ARG	NE-CZ-NH1	-13.26	113.67	120.30
1	С	387	ARG	NE-CZ-NH2	-13.10	113.75	120.30
1	A	387	ARG	NE-CZ-NH2	-12.82	113.89	120.30

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	3429	0	3370	44	0
1	В	3429	0	3381	49	0



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	.,	10	1

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	С	3423	0	3362	51	0
1	D	3423	0	3362	44	0
2	A	15	0	10	2	0
3	A	5	0	0	0	0
4	В	23	0	11	1	0
4	С	23	0	12	0	0
4	D	23	0	11	0	0
5	A	12	0	0	0	0
5	В	17	0	0	3	0
5	С	10	0	0	0	0
5	D	10	0	0	0	0
All	All	13842	0	13519	175	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 6.

The worst 5 of 175 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} \text{Interatomic} \\ \text{distance (Å)} \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
1:A:503:LEU:HD22	1:A:503:LEU:O	1.98	0.64
1:B:138:LYS:HE2	1:B:142:GLU:OE2	1.98	0.63
1:C:503:LEU:HD22	1:C:503:LEU:O	1.98	0.63
1:A:138:LYS:HE2	1:A:142:GLU:OE2	2.00	0.61
1:B:404:PRO:HG3	5:B:528:HOH:O	2.01	0.61

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	451/514 (88%)	430 (95%)	19 (4%)	2 (0%)	34 66



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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	entiles
1	В	451/514 (88%)	430 (95%)	19 (4%)	2 (0%)	34	66
1	С	450/514 (88%)	428 (95%)	20 (4%)	2 (0%)	34	66
1	D	450/514 (88%)	430 (96%)	18 (4%)	2 (0%)	34	66
All	All	1802/2056 (88%)	1718 (95%)	76 (4%)	8 (0%)	34	66

5 of 8 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	155	ALA
1	С	155	ALA
1	В	155	ALA
1	D	103	ALA
1	A	103	ALA

#### 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	A	339/395~(86%)	321 (95%)	18 (5%)	22	54
1	В	339/395~(86%)	320 (94%)	19 (6%)	21	52
1	С	338/395 (86%)	321 (95%)	17 (5%)	24	57
1	D	338/395 (86%)	318 (94%)	20 (6%)	19	49
All	All	1354/1580 (86%)	1280 (94%)	74 (6%)	21	53

5 of 74 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	282	LEU
1	D	494	ARG
1	D	292	VAL
1	D	410	VAL
1	В	310	HIS



Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	С	435	HIS
1	D	435	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)

5 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 Re		Link	Во	Bond lengths			Bond angles		
MIOI	Mol   Type   Chain	Res	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2		
2	PLR	A	514	-	15,15,15	1.02	1 (6%)	20,22,22	1.12	1 (5%)	
4	EXT	С	514	-	23,23,23	1.73	5 (21%)	30,33,33	1.46	4 (13%)	
4	EXT	В	514	-	23,23,23	1.67	4 (17%)	30,33,33	1.27	3 (10%)	
4	EXT	D	514	-	23,23,23	1.70	4 (17%)	30,33,33	1.18	2 (6%)	
3	PO4	A	515	-	4,4,4	0.88	0	6,6,6	0.42	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	nο	outliers	$\alpha$ f	that	kind	were	identified.
_	means	$\mathbf{n}$	Outilities	OI	ULLAU	MILLA	WCIC	iuciiuiicu.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	PLR	A	514	-	-	0/6/6/6	0/1/1/1
4	EXT	С	514	-	-	8/15/15/15	0/1/1/1
4	EXT	В	514	-	-	7/15/15/15	0/1/1/1
4	EXT	D	514	-	-	9/15/15/15	0/1/1/1

The worst 5 of 14 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	Ideal(Å)
4	В	514	EXT	PAQ-OAS	4.74	1.65	1.50
4	С	514	EXT	PAQ-OAS	4.51	1.65	1.50
4	D	514	EXT	PAQ-OAS	4.24	1.64	1.50
4	D	514	EXT	CAA-CAB	-3.80	1.39	1.46
4	С	514	EXT	CAA-CAB	-3.76	1.39	1.46

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$Ideal(^{o})$
4	С	514	EXT	CAU-CAV-NAW	-3.65	105.18	111.12
4	В	514	EXT	OAR-PAQ-OAT	3.15	115.12	106.73
4	D	514	EXT	OAG-PAC-OAE	3.05	115.03	106.47
4	D	514	EXT	OAR-PAQ-OAT	2.96	114.61	106.73
4	С	514	EXT	OAR-PAQ-OAT	2.63	113.74	106.73

There are no chirality outliers.

5 of 24 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	В	514	EXT	CAI-CAA-CAB-NAW
4	В	514	EXT	CAU-OAT-PAQ-OAP
4	В	514	EXT	CAU-OAT-PAQ-OAR
4	В	514	EXT	CAU-OAT-PAQ-OAS
4	В	514	EXT	CAU-CAV-NAW-CAB

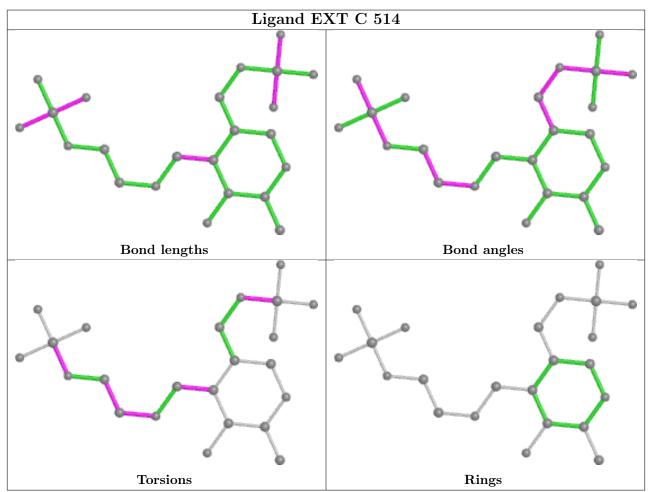
There are no ring outliers.

2 monomers are involved in 3 short contacts:

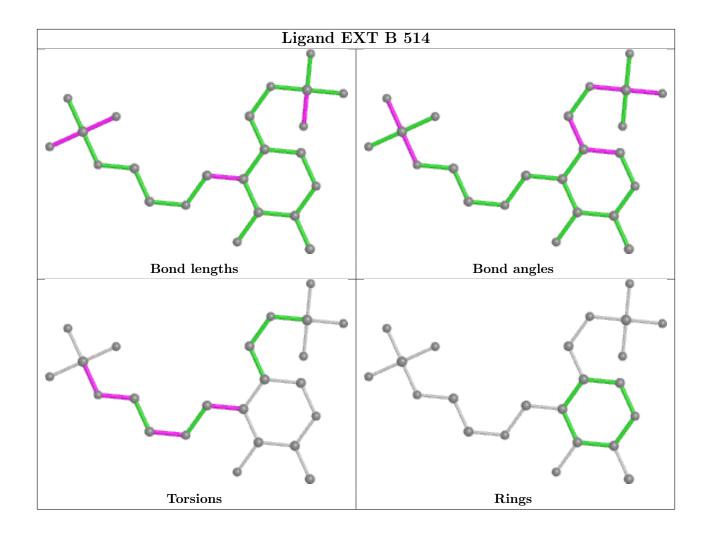
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	514	PLR	2	0
4	В	514	EXT	1	0



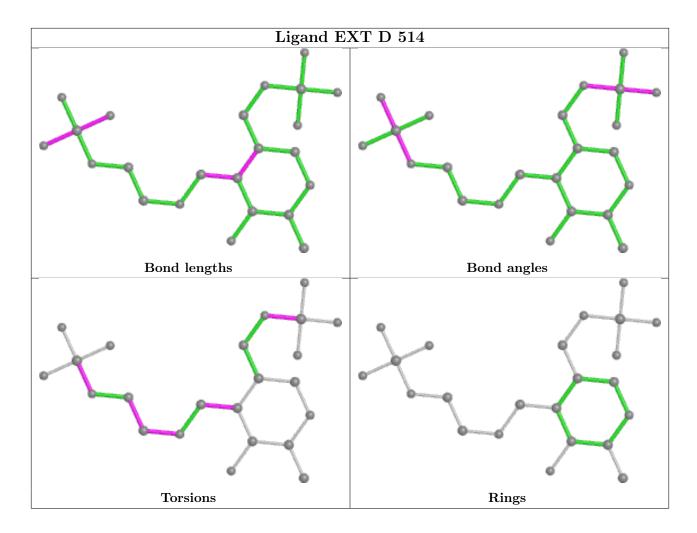
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 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 (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	<rsrz></rsrz>	$\# \mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	Q<0.9
1	A	452/514 (87%)	-0.04	1 (0%) 95 95	54, 70, 86, 104	0
1	В	451/514 (87%)	-0.11	4 (0%) 84 84	54, 70, 86, 101	0
1	С	452/514 (87%)	-0.09	6 (1%) 77 77	55, 70, 86, 111	0
1	D	452/514 (87%)	0.01	10 (2%) 62 59	54, 70, 86, 101	0
All	All	1807/2056 (87%)	-0.06	21 (1%) 79 79	54, 70, 86, 111	0

The worst 5 of 21 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	306	SER	3.7
1	С	508	HIS	3.6
1	D	289	GLY	3.4
1	D	214	LYS	2.8
1	С	61	ARG	2.8

### 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.

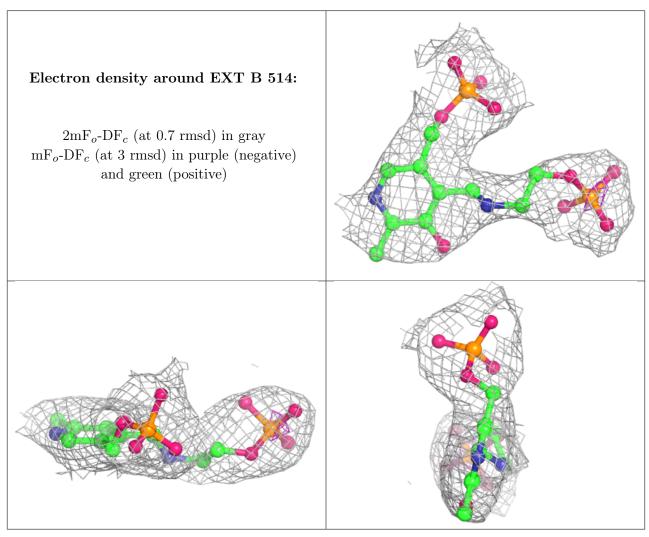
### 6.4 Ligands (i)

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.

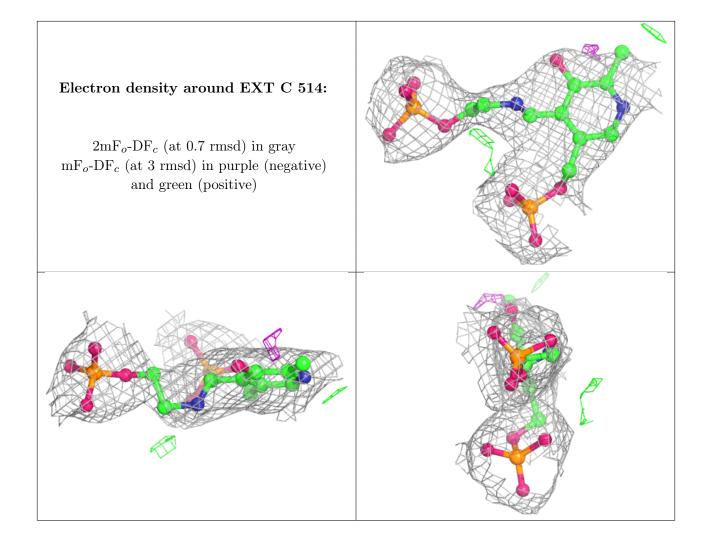


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	PO4	A	515	5/5	0.94	0.17	70,73,80,81	0
4	EXT	В	514	23/23	0.95	0.17	54,60,76,82	0
4	EXT	С	514	23/23	0.95	0.16	60,64,78,87	0
4	EXT	D	514	23/23	0.95	0.17	53,63,72,82	0
2	PLR	A	514	15/15	0.97	0.15	56,58,61,62	0

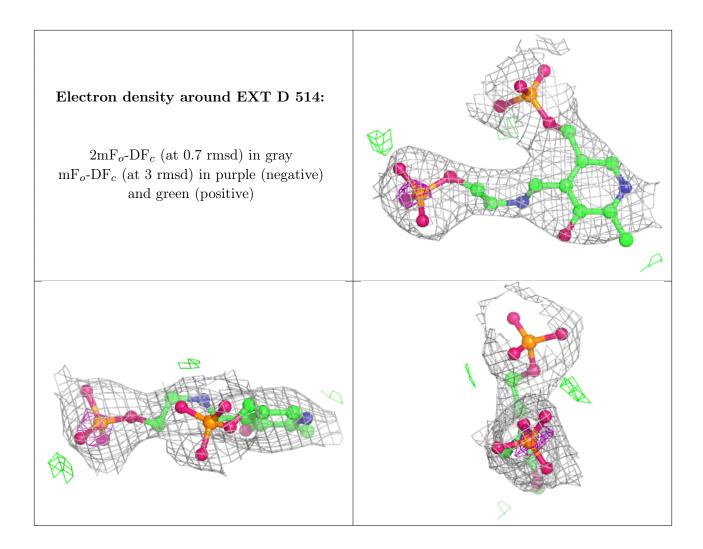
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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











## 6.5 Other polymers (i)

There are no such residues in this entry.

