



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 28, 2014 – 12:24 PM GMT

PDB ID : 3SWV
Title : Crystal Structure of a domain of Brefeldin A-inhibited guanine nucleotide-exchange protein 2 (Brefeldin A-inhibited GEP 2) from Homo sapiens (Human), Northeast Structural Genomics Consortium target id HR5562A
Authors : Seetharaman, J.; Su, M.; Forouhar, F.; Wang, D.; Janjua, H.; Cunningham, K.; Owens, L.; Xiao, R.; Liu, J.; Baran, M.C.; Acton, T.B.; Montelione, G.T.; Hunt, J.F.; Tong, L.; Northeast Structural Genomics Consortium (NESG)
Deposited on : 2011-07-14
Resolution : 3.00 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

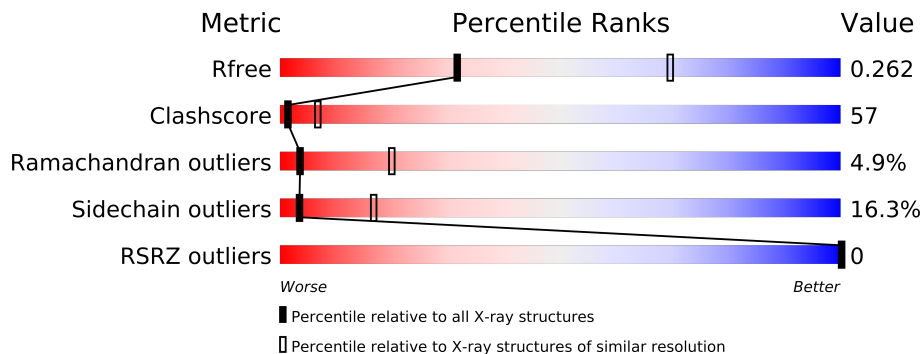
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

The reported resolution of this entry is 3.00 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}	66092	1216 (3.00-3.00)
Clashscore	79885	1594 (3.00-3.00)
Ramachandran outliers	78287	1537 (3.00-3.00)
Sidechain outliers	78261	1540 (3.00-3.00)
RSRZ outliers	66119	1217 (3.00-3.00)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	202	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1531 atoms, of which 0 are hydrogen and 0 are deuterium.

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 Brefeldin A-inhibited guanine nucleotide-exchange protein 2.

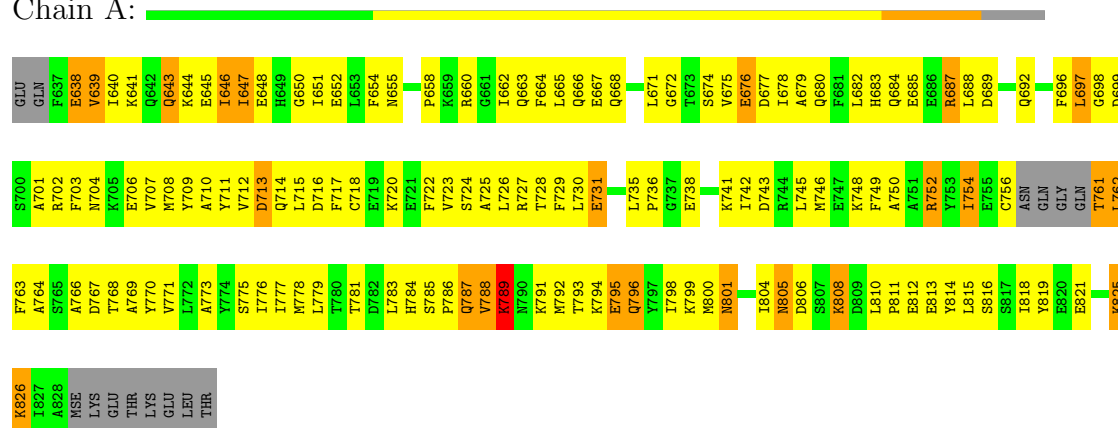
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	S	Se			
1	A	188	1531	977	251	295	2	6	0	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: Brefeldin A-inhibited guanine nucleotide-exchange protein 2

Chain A:



4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	53.94Å 53.94Å 75.72Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	20.00 – 3.00 25.41 – 3.01	Depositor EDS
% Data completeness (in resolution range)	(Not available) (20.00-3.00) 96.1 (25.41-3.01)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.94 (at 2.99Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.203 , 0.262 0.210 , 0.262	Depositor DCC
R_{free} test set	442 reflections (10.45%)	DCC
Wilson B-factor (Å ²)	79.7	Xtriage
Anisotropy	0.133	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 68.5	EDS
Estimated twinning fraction	0.260 for -h,-k,l 0.250 for -h,-k,l 0.113 for h,-h-k,-l 0.099 for -k,-h,-l	Xtriage
Reported twinning fraction	0.260 for -h,-k,l	Depositor
L-test for twinning	$\langle L \rangle = 0.41$, $\langle L^2 \rangle = 0.24$	Xtriage
Outliers	0 of 9222 reflections	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	1531	wwPDB-VP
Average B, all atoms (Å ²)	83.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.20% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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	1/1550 (0.1%)	0.63	0/2067

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	795	GLU	CD-OE2	7.47	1.33	1.25

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1531	0	1519	174	0
All	All	1531	0	1519	174	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 57.

All (174) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:689:ASP:HB3	1:A:692:GLN:HB2	1.33	1.07
1:A:810:LEU:HD21	1:A:814:TYR:HD2	1.24	1.01

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:687:ARG:HH11	1:A:687:ARG:HB2	1.20	1.01
1:A:761:THR:HG23	1:A:762:LEU:HD13	1.55	0.86
1:A:768:THR:HG23	1:A:804:ILE:HG22	1.57	0.85
1:A:810:LEU:HD21	1:A:814:TYR:CD2	2.12	0.84
1:A:736:PRO:O	1:A:742:ILE:HD11	1.80	0.81
1:A:793:THR:OG1	1:A:796:GLN:HB2	1.80	0.81
1:A:781:THR:O	1:A:785:SER:HB2	1.82	0.80
1:A:665:LEU:O	1:A:671:LEU:HB3	1.81	0.80
1:A:720:LYS:HB2	1:A:720:LYS:NZ	1.97	0.80
1:A:752:ARG:HD3	1:A:752:ARG:O	1.81	0.79
1:A:687:ARG:NH1	1:A:687:ARG:HB2	1.98	0.77
1:A:717:PHE:HA	1:A:720:LYS:HZ3	1.50	0.76
1:A:702:ARG:HG3	1:A:702:ARG:HH21	1.51	0.75
1:A:671:LEU:HD21	1:A:678:ILE:HD12	1.69	0.73
1:A:784:HIS:CD2	1:A:826:LYS:HB3	2.23	0.72
1:A:778:MSE:SE	1:A:800:MSE:HE1	2.40	0.72
1:A:773:ALA:O	1:A:777:ILE:HG12	1.89	0.72
1:A:801:ASN:HB2	1:A:804:ILE:HD11	1.74	0.70
1:A:738:GLU:HB2	1:A:741:LYS:HD3	1.74	0.70
1:A:679:ALA:HB2	1:A:707:VAL:O	1.92	0.69
1:A:801:ASN:H	1:A:801:ASN:ND2	1.89	0.67
1:A:662:ILE:HG23	1:A:671:LEU:CD2	2.24	0.67
1:A:764:ALA:HB3	1:A:805:ASN:HB2	1.76	0.67
1:A:798:ILE:HG22	1:A:815:LEU:HB3	1.76	0.66
1:A:715:LEU:HD13	1:A:729:PHE:HA	1.76	0.66
1:A:816:SER:O	1:A:819:TYR:HB3	1.97	0.65
1:A:720:LYS:HB2	1:A:720:LYS:HZ2	1.60	0.65
1:A:728:THR:HA	1:A:731:GLU:HG2	1.79	0.65
1:A:723:VAL:CG2	1:A:818:ILE:HG13	2.28	0.64
1:A:727:ARG:HH12	1:A:825:LYS:HB3	1.60	0.64
1:A:762:LEU:HD22	1:A:762:LEU:C	2.18	0.63
1:A:646:ILE:C	1:A:648:GLU:H	2.01	0.63
1:A:785:SER:O	1:A:791:LYS:NZ	2.30	0.63
1:A:644:LYS:O	1:A:647:ILE:HG23	1.98	0.63
1:A:794:LYS:C	1:A:796:GLN:H	2.02	0.62
1:A:660:ARG:HH11	1:A:663:GLN:HB3	1.64	0.62
1:A:738:GLU:CB	1:A:741:LYS:HD3	2.30	0.62
1:A:708:MSE:HE2	1:A:745:LEU:HA	1.82	0.62
1:A:712:VAL:HG11	1:A:748:LYS:O	2.00	0.61
1:A:787:GLN:HG3	1:A:788:VAL:N	2.14	0.61
1:A:769:ALA:O	1:A:773:ALA:N	2.32	0.61
1:A:685:GLU:O	1:A:688:LEU:HG	2.00	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:775:SER:O	1:A:779:LEU:HB2	1.99	0.60
1:A:801:ASN:N	1:A:801:ASN:ND2	2.47	0.60
1:A:701:ALA:HB3	1:A:704:ASN:OD1	2.00	0.60
1:A:768:THR:HG21	1:A:805:ASN:HB3	1.82	0.60
1:A:784:HIS:CG	1:A:826:LYS:HB3	2.37	0.60
1:A:808:LYS:NZ	1:A:808:LYS:HB2	2.16	0.60
1:A:801:ASN:N	1:A:801:ASN:HD22	1.98	0.60
1:A:682:LEU:HD13	1:A:697:LEU:HG	1.83	0.59
1:A:643:GLN:O	1:A:646:ILE:HG22	2.02	0.59
1:A:717:PHE:HA	1:A:720:LYS:NZ	2.17	0.59
1:A:768:THR:CG2	1:A:805:ASN:HB3	2.33	0.59
1:A:654:PHE:CD2	1:A:688:LEU:HD22	2.37	0.58
1:A:814:TYR:O	1:A:818:ILE:HD13	2.04	0.58
1:A:723:VAL:HG21	1:A:818:ILE:HG13	1.87	0.56
1:A:644:LYS:O	1:A:647:ILE:HG13	2.06	0.56
1:A:663:GLN:O	1:A:667:GLU:HG3	2.06	0.56
1:A:778:MSE:HE1	1:A:800:MSE:SE	2.56	0.55
1:A:784:HIS:CE1	1:A:826:LYS:HD2	2.42	0.55
1:A:810:LEU:HG	1:A:811:PRO:HD2	1.88	0.55
1:A:811:PRO:C	1:A:813:GLU:H	2.10	0.55
1:A:703:PHE:O	1:A:707:VAL:HG23	2.05	0.55
1:A:752:ARG:HH22	1:A:756:CYS:HB2	1.72	0.55
1:A:702:ARG:CG	1:A:702:ARG:HH21	2.20	0.55
1:A:794:LYS:HG3	1:A:795:GLU:H	1.72	0.55
1:A:697:LEU:HD22	1:A:708:MSE:HA	1.89	0.54
1:A:789:LYS:C	1:A:789:LYS:HD3	2.28	0.54
1:A:788:VAL:O	1:A:789:LYS:C	2.46	0.54
1:A:675:VAL:HA	1:A:678:ILE:HG12	1.89	0.53
1:A:676:GLU:OE1	1:A:677:ASP:N	2.42	0.53
1:A:787:GLN:HG3	1:A:788:VAL:H	1.72	0.53
1:A:651:ILE:HD13	1:A:687:ARG:HH12	1.73	0.53
1:A:662:ILE:HG23	1:A:671:LEU:HD23	1.90	0.53
1:A:647:ILE:C	1:A:647:ILE:HD12	2.29	0.53
1:A:781:THR:O	1:A:785:SER:CB	2.54	0.53
1:A:801:ASN:CB	1:A:804:ILE:HD11	2.40	0.52
1:A:697:LEU:CD2	1:A:708:MSE:HA	2.40	0.52
1:A:640:ILE:HD12	1:A:641:LYS:N	2.25	0.52
1:A:798:ILE:HG13	1:A:799:LYS:N	2.24	0.52
1:A:679:ALA:CB	1:A:710:ALA:HB3	2.40	0.51
1:A:730:LEU:HD22	1:A:735:LEU:HG	1.92	0.51
1:A:650:GLY:HA3	1:A:665:LEU:CD1	2.41	0.51
1:A:674:SER:HB2	1:A:676:GLU:OE2	2.11	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:771:VAL:HG12	1:A:771:VAL:O	2.09	0.51
1:A:794:LYS:HG3	1:A:795:GLU:N	2.26	0.51
1:A:786:PRO:O	1:A:787:GLN:HB3	2.10	0.51
1:A:645:GLU:O	1:A:648:GLU:HG3	2.10	0.51
1:A:786:PRO:O	1:A:787:GLN:CB	2.59	0.51
1:A:658:PRO:HB2	1:A:696:PHE:CD1	2.47	0.50
1:A:638:GLU:C	1:A:640:ILE:H	2.14	0.50
1:A:687:ARG:CB	1:A:687:ARG:HH11	2.09	0.50
1:A:679:ALA:HB1	1:A:711:TYR:N	2.26	0.50
1:A:768:THR:CG2	1:A:804:ILE:HG22	2.37	0.49
1:A:752:ARG:O	1:A:752:ARG:CD	2.56	0.49
1:A:724:SER:O	1:A:727:ARG:HB3	2.12	0.49
1:A:645:GLU:C	1:A:647:ILE:H	2.14	0.49
1:A:658:PRO:C	1:A:660:ARG:H	2.15	0.49
1:A:679:ALA:CB	1:A:707:VAL:O	2.61	0.49
1:A:805:ASN:ND2	1:A:805:ASN:O	2.46	0.48
1:A:762:LEU:HD22	1:A:763:PHE:N	2.27	0.48
1:A:768:THR:OG1	1:A:805:ASN:HB3	2.13	0.48
1:A:676:GLU:O	1:A:680:GLN:HB2	2.12	0.48
1:A:727:ARG:NH1	1:A:825:LYS:HB3	2.27	0.48
1:A:794:LYS:C	1:A:796:GLN:N	2.66	0.48
1:A:762:LEU:CD2	1:A:762:LEU:C	2.82	0.48
1:A:696:PHE:C	1:A:698:GLY:H	2.18	0.47
1:A:813:GLU:OE1	1:A:816:SER:HB2	2.14	0.47
1:A:665:LEU:O	1:A:671:LEU:N	2.48	0.47
1:A:702:ARG:NH2	1:A:702:ARG:HG3	2.26	0.46
1:A:646:ILE:C	1:A:648:GLU:N	2.68	0.46
1:A:706:GLU:C	1:A:708:MSE:N	2.69	0.46
1:A:716:ASP:HB2	1:A:718:CYS:SG	2.55	0.46
1:A:672:GLY:O	1:A:678:ILE:HD11	2.16	0.46
1:A:722:PHE:CE2	1:A:776:ILE:HD12	2.51	0.46
1:A:783:LEU:HD21	1:A:792:MSE:HB3	1.97	0.46
1:A:658:PRO:HD3	1:A:692:GLN:OE1	2.16	0.45
1:A:798:ILE:HG22	1:A:815:LEU:CB	2.43	0.45
1:A:814:TYR:O	1:A:818:ILE:HB	2.15	0.45
1:A:726:LEU:HD13	1:A:749:PHE:CE2	2.51	0.45
1:A:811:PRO:O	1:A:813:GLU:N	2.50	0.45
1:A:726:LEU:N	1:A:749:PHE:HZ	2.14	0.45
1:A:720:LYS:HB2	1:A:720:LYS:HZ1	1.80	0.45
1:A:746:MSE:O	1:A:770:TYR:HD1	1.99	0.45
1:A:801:ASN:HB2	1:A:804:ILE:CD1	2.43	0.45
1:A:761:THR:HG23	1:A:762:LEU:H	1.81	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:754:ILE:O	1:A:754:ILE:HG22	2.16	0.45
1:A:725:ALA:O	1:A:729:PHE:N	2.49	0.45
1:A:662:ILE:HD12	1:A:662:ILE:N	2.32	0.44
1:A:664:PHE:C	1:A:666:GLN:H	2.21	0.44
1:A:650:GLY:HA3	1:A:665:LEU:HD11	1.99	0.44
1:A:715:LEU:CD1	1:A:729:PHE:HA	2.44	0.44
1:A:811:PRO:C	1:A:813:GLU:N	2.71	0.44
1:A:643:GLN:O	1:A:646:ILE:CG2	2.65	0.44
1:A:726:LEU:HG	1:A:730:LEU:HD12	1.99	0.44
1:A:655:ASN:C	1:A:692:GLN:HG3	2.38	0.44
1:A:750:ALA:HB1	1:A:769:ALA:HB3	1.99	0.44
1:A:796:GLN:O	1:A:800:MSE:HB2	2.18	0.43
1:A:708:MSE:O	1:A:711:TYR:HB3	2.18	0.43
1:A:754:ILE:HG13	1:A:766:ALA:HA	2.00	0.43
1:A:675:VAL:O	1:A:678:ILE:N	2.38	0.43
1:A:702:ARG:CG	1:A:702:ARG:NH2	2.79	0.43
1:A:641:LYS:C	1:A:643:GLN:H	2.22	0.43
1:A:651:ILE:HA	1:A:654:PHE:HB3	2.01	0.43
1:A:798:ILE:O	1:A:801:ASN:ND2	2.52	0.43
1:A:713:ASP:OD2	1:A:713:ASP:N	2.52	0.43
1:A:696:PHE:O	1:A:698:GLY:N	2.52	0.43
1:A:672:GLY:HA3	1:A:677:ASP:OD1	2.18	0.43
1:A:825:LYS:HB2	1:A:825:LYS:HE3	1.82	0.43
1:A:698:GLY:O	1:A:741:LYS:NZ	2.46	0.42
1:A:764:ALA:CB	1:A:805:ASN:HB2	2.46	0.42
1:A:675:VAL:HG23	1:A:676:GLU:N	2.35	0.42
1:A:644:LYS:C	1:A:646:ILE:N	2.72	0.42
1:A:655:ASN:O	1:A:692:GLN:HG3	2.20	0.41
1:A:651:ILE:CD1	1:A:687:ARG:HH12	2.32	0.41
1:A:704:ASN:C	1:A:706:GLU:N	2.73	0.41
1:A:783:LEU:HD23	1:A:792:MSE:H	1.85	0.41
1:A:727:ARG:NH2	1:A:825:LYS:HG2	2.35	0.41
1:A:679:ALA:HB1	1:A:711:TYR:CA	2.51	0.41
1:A:730:LEU:HD21	1:A:746:MSE:HE1	2.02	0.41
1:A:643:GLN:HE21	1:A:643:GLN:HB2	1.65	0.41
1:A:706:GLU:O	1:A:709:TYR:N	2.54	0.41
1:A:697:LEU:HD11	1:A:711:TYR:CD2	2.55	0.41
1:A:647:ILE:C	1:A:647:ILE:CD1	2.89	0.41
1:A:798:ILE:HG13	1:A:799:LYS:H	1.86	0.41
1:A:810:LEU:HD23	1:A:815:LEU:CD2	2.51	0.41
1:A:762:LEU:HD21	1:A:763:PHE:CD2	2.55	0.41
1:A:662:ILE:HG23	1:A:671:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:679:ALA:HB2	1:A:710:ALA:HB3	2.03	0.41
1:A:813:GLU:O	1:A:814:TYR:C	2.60	0.40
1:A:748:LYS:HA	1:A:748:LYS:HD2	1.90	0.40
1:A:709:TYR:CZ	1:A:713:ASP:OD1	2.74	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	184/202 (91%)	143 (78%)	32 (17%)	9 (5%)	3 20

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	697	LEU
1	A	754	ILE
1	A	787	GLN
1	A	812	GLU
1	A	789	LYS
1	A	788	VAL
1	A	646	ILE
1	A	647	ILE
1	A	639	VAL

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	166/172 (96%)	139 (84%)	27 (16%)	3 17

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	638	GLU
1	A	639	VAL
1	A	643	GLN
1	A	652	GLU
1	A	668	GLN
1	A	676	GLU
1	A	683	HIS
1	A	684	GLN
1	A	687	ARG
1	A	699	ASP
1	A	713	ASP
1	A	714	GLN
1	A	731	GLU
1	A	743	ASP
1	A	752	ARG
1	A	761	THR
1	A	762	LEU
1	A	767	ASP
1	A	789	LYS
1	A	796	GLN
1	A	801	ASN
1	A	805	ASN
1	A	806	ASP
1	A	808	LYS
1	A	821	GLU
1	A	825	LYS
1	A	826	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	643	GLN
1	A	668	GLN
1	A	684	GLN
1	A	784	HIS
1	A	801	ASN
1	A	805	ASN

5.3.3 RNA ⓘ

There are no RNA chains 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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

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	188/202 (93%)	-0.08	0 100 100	45, 84, 97, 108	0

There are no RSRZ outliers to report.

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

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

There are no ligands in this entry.

6.5 Other polymers ⓘ

There are no such residues in this entry.