



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 31, 2016 – 09:26 PM GMT

PDB ID : 1OXW
Title : The Crystal Structure of SeMet Patatin
Authors : Rydel, T.J.; Williams, J.M.; Krieger, E.; Moshiri, F.; Stallings, W.C.; Brown, S.M.; Pershing, J.C.; Purcell, J.P.; Alibhai, M.F.
Deposited on : 2003-04-03
Resolution : 2.20 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

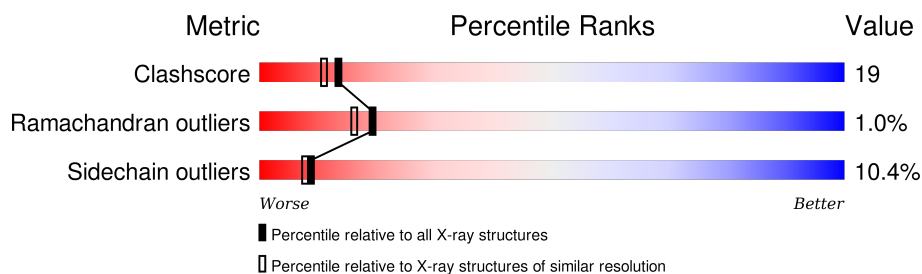
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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))
Clashscore	102246	4477 (2.20-2.20)
Ramachandran outliers	100387	4404 (2.20-2.20)
Sidechain outliers	100360	4405 (2.20-2.20)

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. 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.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	373	
1	B	373	
1	C	373	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 8871 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 Patatin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	360	Total	C	N	O	Se	0	0	0
			2787	1769	454	553	11			
1	B	359	Total	C	N	O	Se	0	0	0
			2782	1765	453	553	11			
1	C	362	Total	C	N	O	Se	0	0	0
			2804	1779	457	556	12			

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	14	MSE	-	EXPRESSION TAG	UNP Q8LPW4
A	15	HIS	-	EXPRESSION TAG	UNP Q8LPW4
A	16	HIS	-	EXPRESSION TAG	UNP Q8LPW4
A	17	HIS	-	EXPRESSION TAG	UNP Q8LPW4
A	18	HIS	-	EXPRESSION TAG	UNP Q8LPW4
A	19	HIS	-	EXPRESSION TAG	UNP Q8LPW4
A	20	HIS	-	EXPRESSION TAG	UNP Q8LPW4
A	21	ALA	-	EXPRESSION TAG	UNP Q8LPW4
A	22	MSE	-	EXPRESSION TAG	UNP Q8LPW4
A	28	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
A	58	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
A	85	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
A	131	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
A	180	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
A	253	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
A	284	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
A	290	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
A	298	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
A	331	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
A	339	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
B	1014	MSE	-	EXPRESSION TAG	UNP Q8LPW4
B	1015	HIS	-	EXPRESSION TAG	UNP Q8LPW4
B	1016	HIS	-	EXPRESSION TAG	UNP Q8LPW4

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Chain	Residue	Modelled	Actual	Comment	Reference
B	1017	HIS	-	EXPRESSION TAG	UNP Q8LPW4
B	1018	HIS	-	EXPRESSION TAG	UNP Q8LPW4
B	1019	HIS	-	EXPRESSION TAG	UNP Q8LPW4
B	1020	HIS	-	EXPRESSION TAG	UNP Q8LPW4
B	1021	ALA	-	EXPRESSION TAG	UNP Q8LPW4
B	1022	MSE	-	EXPRESSION TAG	UNP Q8LPW4
B	1028	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
B	1058	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
B	1085	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
B	1131	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
B	1180	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
B	1253	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
B	1284	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
B	1290	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
B	1298	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
B	1331	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
B	1339	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
C	2014	MSE	-	EXPRESSION TAG	UNP Q8LPW4
C	2015	HIS	-	EXPRESSION TAG	UNP Q8LPW4
C	2016	HIS	-	EXPRESSION TAG	UNP Q8LPW4
C	2017	HIS	-	EXPRESSION TAG	UNP Q8LPW4
C	2018	HIS	-	EXPRESSION TAG	UNP Q8LPW4
C	2019	HIS	-	EXPRESSION TAG	UNP Q8LPW4
C	2020	HIS	-	EXPRESSION TAG	UNP Q8LPW4
C	2021	ALA	-	EXPRESSION TAG	UNP Q8LPW4
C	2022	MSE	-	EXPRESSION TAG	UNP Q8LPW4
C	2028	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
C	2058	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
C	2085	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
C	2131	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
C	2180	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
C	2253	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
C	2284	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
C	2290	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
C	2298	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
C	2331	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4
C	2339	MSE	MET	MODIFIED RESIDUE	UNP Q8LPW4

- Molecule 2 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	156	Total O 156 156	0	0

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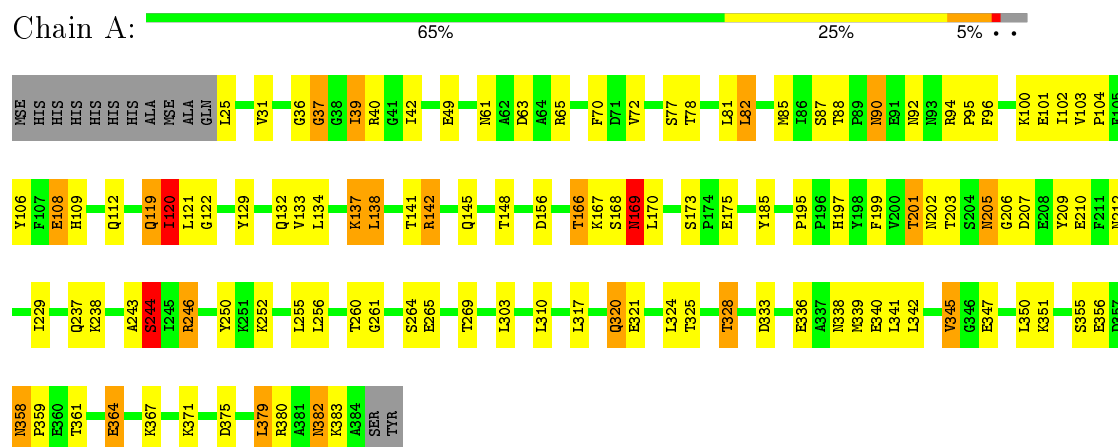
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	169	Total	O	0	0
			169	169		
2	C	173	Total	O	0	0
			173	173		

3 Residue-property plots

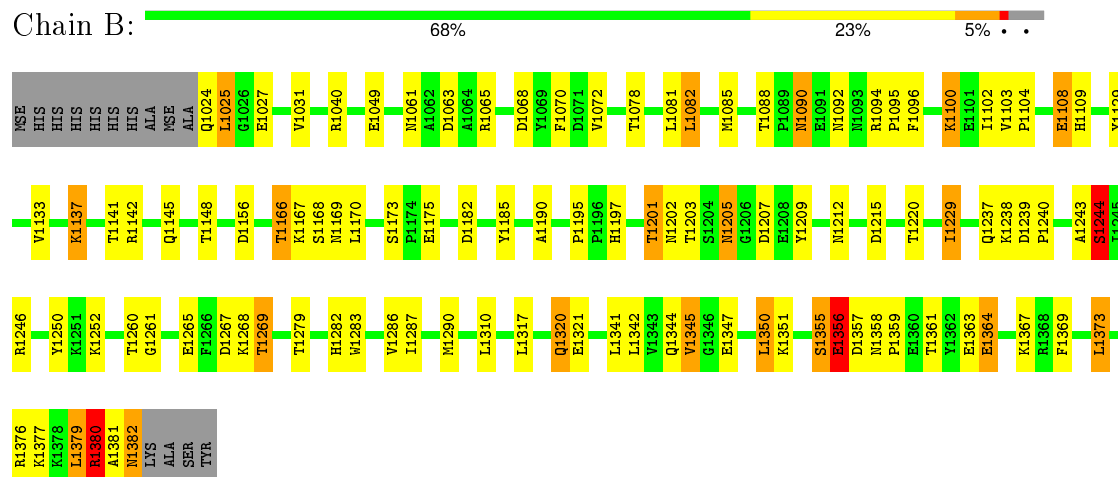
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according 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 ($\text{RSRZ} > 2$). 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.

Note EDS was not executed.

• Molecule 1: Patatin



• Molecule 1: Patatin



• Molecule 1: Patatin



ALA	SER	TYR	K2383	K2380	E2364	T2361	M2358	D2357	A2243	E2244	S2244	R2246	Y2129	V2133	L2134	Q2135	E2136	K2137	L2138	T2141	R2142	Q2145	T2148	D2156	T2157	K2158	T2166	K2167	S2168	M2169	S2173	E2174	E2175	D2182	Y2185	A2190	P2195	T2196	R2197	V2200	T2201	M2202	T2203	S2204	M2205	G2206	D2207	E2208	Y2209	M2212	D2215	T2220	Q2237	K2238																																																																																																																																																																																																																																																																																																																																																															
									K2354	K2355	K2356	K2357	K2358	K2359	K2360	K2361	K2362	K2363	K2364	K2365	K2366	K2367	K2368	K2369	K2370	K2371	K2372	K2373	K2374	K2375	K2376	K2377	K2378	K2379	K2380	K2381	K2382	K2383	K2384	K2385	K2386	K2387	K2388	K2389	K2390	K2391	K2392	K2393	K2394	K2395	K2396	K2397	K2398	K2399	K2400	K2401	K2402	K2403	K2404	K2405	K2406	K2407	K2408	K2409	K2410	K2411	K2412	K2413	K2414	K2415	K2416	K2417	K2418	K2419	K2420	K2421	K2422	K2423	K2424	K2425	K2426	K2427	K2428	K2429	K2430	K2431	K2432	K2433	K2434	K2435	K2436	K2437	K2438	K2439	K2440	K2441	K2442	K2443	K2444	K2445	K2446	K2447	K2448	K2449	K2450	K2451	K2452	K2453	K2454	K2455	K2456	K2457	K2458	K2459	K2460	K2461	K2462	K2463	K2464	K2465	K2466	K2467	K2468	K2469	K2470	K2471	K2472	K2473	K2474	K2475	K2476	K2477	K2478	K2479	K2480	K2481	K2482	K2483	K2484	K2485	K2486	K2487	K2488	K2489	K2490	K2491	K2492	K2493	K2494	K2495	K2496	K2497	K2498	K2499	K2500	K2501	K2502	K2503	K2504	K2505	K2506	K2507	K2508	K2509	K2510	K2511	K2512	K2513	K2514	K2515	K2516	K2517	K2518	K2519	K2520	K2521	K2522	K2523	K2524	K2525	K2526	K2527	K2528	K2529	K2530	K2531	K2532	K2533	K2534	K2535	K2536	K2537	K2538	K2539	K2540	K2541	K2542	K2543	K2544	K2545	K2546	K2547	K2548	K2549	K2550	K2551	K2552	K2553	K2554	K2555	K2556	K2557	K2558	K2559	K2560	K2561	K2562	K2563	K2564	K2565	K2566	K2567	K2568	K2569	K2570	K2571	K2572	K2573	K2574	K2575	K2576	K2577	K2578	K2579	K2580	K2581	K2582	K2583	K2584	K2585	K2586	K2587	K2588	K2589	K2590	K2591	K2592	K2593	K2594	K2595	K2596	K2597	K2598	K2599	K2600	K2601	K2602	K2603	K2604	K2605	K2606	K2607	K2608	K2609	K2610	K2611	K2612	K2613	K2614	K2615	K2616	K2617	K2618	K2619	K2620	K2621	K2622	K2623	K2624	K2625	K2626	K2627	K2628	K2629	K2630	K2631	K2632	K2633	K2634	K2635	K2636	K2637	K2638	K2639	K2640	K2641	K2642	K2643	K2644	K2645	K2646	K2647	K2648	K2649	K2650	K2651	K2652	K2653	K2654	K2655	K2656	K2657	K2658	K2659	K2660	K2661	K2662	K2663	K2664	K2665	K2666	K2667	K2668	K2669	K2670	K2671	K2672	K2673	K2674	K2675	K2676	K2677	K2678	K2679	K2680	K2681	K2682	K2683	K2684	K2685	K2686	K2687	K2688	K2689	K2690	K2691	K2692	K2693	K2694	K2695	K2696	K2697	K2698	K2699	K2700	K2701	K2702	K2703	K2704	K2705	K2706	K2707	K2708	K2709	K2710	K2711	K2712	K2713	K2714	K2715	K2716	K2717	K2718	K2719	K2720	K2721	K2722	K2723	K2724	K2725	K2726	K2727	K2728	K2729	K2730	K2731	K2732	K2733	K2734	K2735	K2736	K2737	K2738	K2739	K2740	K2741	K2742	K2743	K2744	K2745	K2746	K2747	K2748	K2749	K2750

4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section will therefore be incomplete.

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	97.18 Å 171.42 Å 129.88 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.20	Depositor
% Data completeness (in resolution range)	100.0 (20.00-2.20)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	0.09	Depositor
Refinement program	X-PLOR 98.1	Depositor
R, R_{free}	0.220 , 0.272	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	8871	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

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	0.45	0/2830	0.64	0/3825
1	B	0.44	0/2825	0.63	0/3819
1	C	0.44	0/2847	0.63	0/3847
All	All	0.45	0/8502	0.63	0/11491

There are no bond length outliers.

There are no bond angle outliers.

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	2787	0	2756	106	0
1	B	2782	0	2746	105	0
1	C	2804	0	2773	104	0
2	A	156	0	0	2	0
2	B	169	0	0	3	0
2	C	173	0	0	5	0
All	All	8871	0	8275	312	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 19.

All (312) 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:1201:THR:HG22	1:B:1209:TYR:HB3	1.41	0.98
1:C:2201:THR:HG22	1:C:2209:TYR:HB3	1.46	0.97
1:C:2261:GLY:H	1:C:2320:GLN:HE22	1.11	0.96
1:A:201:THR:HG22	1:A:209:TYR:HB3	1.46	0.96
1:B:1261:GLY:H	1:B:1320:GLN:HE22	1.14	0.95
1:A:88:THR:HG23	1:A:141:THR:HG21	1.49	0.94
1:A:261:GLY:H	1:A:320:GLN:HE22	1.11	0.93
1:C:2022:MSE:N	1:C:2383:LYS:HZ2	1.67	0.91
1:B:1286:VAL:HG23	1:B:1290:MSE:HE2	1.52	0.89
1:B:1347:GLU:OE1	1:C:2024:GLN:HG2	1.72	0.89
1:B:1088:THR:HG23	1:B:1141:THR:HG21	1.57	0.85
1:A:106:TYR:O	1:A:339:MSE:HE1	1.78	0.83
1:C:2106:TYR:C	1:C:2339:MSE:HE1	2.01	0.81
1:C:2158:LYS:NZ	1:C:2212:ASN:HD22	1.80	0.80
1:C:2022:MSE:HB3	1:C:2383:LYS:HD2	1.66	0.78
1:B:1090:ASN:HD22	1:B:1090:ASN:C	1.86	0.78
1:C:2054:GLN:O	1:C:2058:MSE:HG3	1.84	0.77
1:C:2049:GLU:HG3	1:C:2100:LYS:HA	1.69	0.75
1:A:324:LEU:HB3	1:A:328:THR:HG22	1.68	0.75
1:C:2088:THR:HG23	1:C:2141:THR:HG21	1.68	0.75
1:C:2205:ASN:HD22	1:C:2207:ASP:H	1.33	0.74
1:B:1287:ILE:HA	1:B:1290:MSE:HE3	1.69	0.73
1:B:1108:GLU:HG2	1:B:1109:HIS:CD2	2.23	0.73
1:B:1175:GLU:O	1:B:1201:THR:HG21	1.89	0.73
1:C:2343:VAL:O	1:C:2347:GLU:HG3	1.87	0.73
1:C:2324:LEU:HD22	1:C:2328:THR:CG2	2.19	0.71
1:A:175:GLU:O	1:A:201:THR:HG21	1.90	0.71
1:C:2201:THR:HG23	1:C:2202:ASN:N	2.06	0.70
1:A:49:GLU:HG3	1:A:100:LYS:HA	1.72	0.70
1:A:90:ASN:HD22	1:A:90:ASN:C	1.93	0.70
1:B:1205:ASN:HD22	1:B:1207:ASP:H	1.40	0.69
1:A:261:GLY:H	1:A:320:GLN:NE2	1.90	0.69
1:B:1320:GLN:HE21	1:B:1321:GLU:H	1.40	0.69
1:C:2175:GLU:O	1:C:2201:THR:HG21	1.91	0.68
1:C:2250:TYR:HB2	1:C:2310:LEU:HD12	1.76	0.68
1:C:2090:ASN:C	1:C:2090:ASN:HD22	1.97	0.68
1:C:2320:GLN:HE21	1:C:2321:GLU:H	1.43	0.67
1:B:1201:THR:HG23	1:B:1202:ASN:N	2.09	0.67
1:A:175:GLU:HG2	1:A:203:THR:HG22	1.76	0.67
1:A:70:PHE:O	1:A:148:THR:HG21	1.95	0.67
1:A:201:THR:HG23	1:A:202:ASN:N	2.09	0.67
1:A:261:GLY:N	1:A:320:GLN:HE22	1.90	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:205:ASN:HD22	1:A:207:ASP:H	1.40	0.67
1:A:25:LEU:HD12	1:A:379:LEU:HD11	1.77	0.67
1:B:1369:PHE:CD2	1:B:1373:LEU:HD21	2.30	0.66
1:B:1250:TYR:HB2	1:B:1310:LEU:HD12	1.77	0.66
1:C:2205:ASN:ND2	1:C:2207:ASP:H	1.93	0.66
1:B:1379:LEU:HD23	1:B:1379:LEU:N	2.11	0.66
1:B:1049:GLU:HG3	1:B:1100:LYS:HA	1.78	0.65
1:C:2042:ILE:HD11	1:C:2339:MSE:HE3	1.77	0.65
1:C:2042:ILE:HD11	1:C:2339:MSE:CE	2.26	0.64
1:C:2142:ARG:H	1:C:2145:GLN:NE2	1.95	0.64
1:B:1175:GLU:HG2	1:B:1203:THR:HG22	1.80	0.64
1:C:2158:LYS:HZ3	1:C:2212:ASN:HD22	1.45	0.64
1:C:2175:GLU:HG2	1:C:2203:THR:HG22	1.79	0.63
1:A:205:ASN:ND2	1:A:207:ASP:H	1.96	0.63
1:B:1261:GLY:N	1:B:1320:GLN:HE22	1.93	0.63
1:A:320:GLN:HE21	1:A:321:GLU:H	1.45	0.63
1:B:1166:THR:HG23	1:B:1168:SER:H	1.64	0.63
1:C:2070:PHE:O	1:C:2148:THR:HG21	1.99	0.63
1:A:229:ILE:HD11	1:A:255:LEU:HD22	1.80	0.63
1:B:1287:ILE:HA	1:B:1290:MSE:CE	2.29	0.63
1:C:2134:LEU:O	1:C:2138:LEU:HB2	1.99	0.62
1:A:120:ILE:HD13	1:A:120:ILE:H	1.65	0.62
1:C:2175:GLU:HG3	1:C:2203:THR:HA	1.82	0.62
1:A:175:GLU:HG3	1:A:203:THR:HA	1.82	0.62
1:A:250:TYR:HB2	1:A:310:LEU:HD12	1.80	0.62
1:B:1369:PHE:O	1:B:1373:LEU:HD22	2.00	0.61
1:C:2168:SER:O	1:C:2169:ASN:HB2	1.99	0.61
1:B:1175:GLU:HG3	1:B:1203:THR:HA	1.81	0.61
1:A:324:LEU:HD22	1:A:328:THR:CG2	2.30	0.61
1:B:1070:PHE:O	1:B:1148:THR:HG21	2.00	0.61
1:C:2286:VAL:HG23	1:C:2290:MSE:HE3	1.82	0.61
1:C:2220:THR:O	1:C:2220:THR:HG22	2.00	0.61
1:A:256:LEU:HD13	1:A:317:LEU:HD23	1.81	0.61
1:C:2261:GLY:H	1:C:2320:GLN:NE2	1.90	0.61
1:B:1379:LEU:H	1:B:1379:LEU:HD23	1.66	0.61
1:C:2286:VAL:CG2	1:C:2290:MSE:HE3	2.31	0.61
1:B:1205:ASN:ND2	1:B:1207:ASP:H	1.97	0.60
1:B:1108:GLU:HG2	1:B:1109:HIS:NE2	2.16	0.60
1:A:168:SER:O	1:A:169:ASN:HB3	2.01	0.59
1:A:101:GLU:C	1:A:104:PRO:HD2	2.23	0.59
1:C:2261:GLY:N	1:C:2320:GLN:HE22	1.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:166:THR:HG23	1:A:168:SER:H	1.67	0.59
1:B:1287:ILE:HD12	1:B:1290:MSE:HE3	1.83	0.58
1:A:82:LEU:HD22	1:A:102:ILE:HG21	1.84	0.58
1:B:1344:GLN:HG2	1:C:2024:GLN:OE1	2.02	0.58
1:A:90:ASN:ND2	1:A:94:ARG:H	2.01	0.58
1:A:324:LEU:HD22	1:A:328:THR:HG23	1.86	0.58
1:B:1361:THR:OG1	1:B:1364:GLU:HG2	2.04	0.58
1:C:2022:MSE:HE2	1:C:2383:LYS:HB3	1.85	0.57
1:A:39:ILE:HD13	1:A:333:ASP:O	2.05	0.57
1:B:1357:ASP:O	1:B:1359:PRO:HD3	2.05	0.57
1:C:2205:ASN:HD21	1:C:2207:ASP:HB2	1.70	0.57
1:B:1129:TYR:CE2	1:B:1133:VAL:HG21	2.40	0.57
1:B:1320:GLN:HA	1:B:1320:GLN:HE21	1.70	0.57
1:A:42:ILE:HD11	1:A:339:MSE:HE2	1.87	0.56
1:B:1090:ASN:ND2	1:B:1090:ASN:C	2.56	0.56
1:B:1129:TYR:O	1:B:1133:VAL:HG23	2.06	0.56
1:C:2142:ARG:H	1:C:2145:GLN:HE21	1.54	0.56
1:C:2361:THR:OG1	1:C:2364:GLU:HG2	2.06	0.56
1:A:36:GLY:HA3	1:A:77:SER:HB3	1.87	0.56
1:B:1367:LYS:HE2	2:B:3277:HOH:O	2.06	0.55
1:B:1261:GLY:H	1:B:1320:GLN:NE2	1.94	0.55
1:A:106:TYR:HB3	1:A:339:MSE:HE2	1.88	0.55
1:C:2090:ASN:ND2	1:C:2094:ARG:H	2.05	0.55
1:C:2082:LEU:HD22	1:C:2102:ILE:HG21	1.88	0.55
1:C:2106:TYR:O	1:C:2339:MSE:HE1	2.07	0.55
1:B:1082:LEU:O	1:B:1082:LEU:HD12	2.07	0.54
1:A:106:TYR:C	1:A:339:MSE:HE1	2.27	0.54
1:C:2158:LYS:HZ2	1:C:2212:ASN:HD22	1.51	0.54
1:A:137:LYS:HE3	2:A:3967:HOH:O	2.07	0.54
1:A:40:ARG:HB3	1:A:260:THR:HB	1.90	0.54
1:C:2101:GLU:C	1:C:2104:PRO:HD2	2.28	0.53
1:A:371:LYS:HE2	1:C:2351:LYS:HB3	1.89	0.53
1:B:1369:PHE:HD2	1:B:1373:LEU:HD21	1.69	0.53
1:C:2082:LEU:O	1:C:2082:LEU:HD12	2.09	0.53
1:C:2328:THR:HA	1:C:2338:ASN:HD21	1.74	0.53
1:A:142:ARG:H	1:A:145:GLN:NE2	2.06	0.53
1:A:382:ASN:ND2	1:A:383:LYS:N	2.57	0.53
1:B:1320:GLN:HE21	1:B:1321:GLU:N	2.05	0.53
1:B:1090:ASN:ND2	1:B:1094:ARG:H	2.07	0.53
1:B:1082:LEU:HD22	1:B:1102:ILE:HG21	1.90	0.52
1:C:2040:ARG:HD2	1:C:2260:THR:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:65:ARG:CB	1:A:95:PRO:HG2	2.39	0.52
1:B:1185:TYR:OH	1:B:1195:PRO:HD2	2.10	0.52
1:B:1065:ARG:CB	1:B:1095:PRO:HG2	2.39	0.52
1:C:2201:THR:CG2	1:C:2202:ASN:N	2.71	0.52
1:A:324:LEU:HB3	1:A:328:THR:CG2	2.38	0.52
1:A:39:ILE:HG22	1:A:339:MSE:HE3	1.91	0.52
1:B:1203:THR:OG1	1:B:1205:ASN:ND2	2.42	0.52
1:C:2320:GLN:HA	1:C:2320:GLN:HE21	1.74	0.51
1:A:361:THR:OG1	1:A:364:GLU:HG2	2.10	0.51
1:C:2282:HIS:HA	1:C:2285:LEU:HD12	1.92	0.51
1:C:2040:ARG:HB3	1:C:2260:THR:HB	1.92	0.51
1:C:2106:TYR:HB3	1:C:2339:MSE:CE	2.41	0.51
1:C:2353:PRO:HA	1:C:2361:THR:HA	1.90	0.51
1:C:2078:THR:HA	1:C:2081:LEU:HG	1.92	0.51
1:A:25:LEU:O	1:A:25:LEU:HD22	2.10	0.51
1:C:2129:TYR:CE2	1:C:2133:VAL:HG21	2.46	0.51
1:C:2090:ASN:C	1:C:2090:ASN:ND2	2.64	0.51
1:B:1142:ARG:H	1:B:1145:GLN:NE2	2.08	0.51
1:A:39:ILE:CG2	1:A:339:MSE:HE3	2.41	0.51
1:A:40:ARG:HD2	1:A:260:THR:O	2.11	0.51
1:B:1090:ASN:ND2	1:B:1092:ASN:H	2.09	0.50
1:B:1369:PHE:CD2	1:B:1373:LEU:CD2	2.94	0.50
1:B:1068:ASP:HB3	1:B:1377:LYS:HE3	1.93	0.50
1:A:166:THR:HG22	1:A:168:SER:O	2.12	0.50
1:C:2244:SER:HB3	2:C:3340:HOH:O	2.10	0.50
1:A:129:TYR:O	1:A:133:VAL:HG23	2.12	0.50
1:A:168:SER:O	1:A:169:ASN:CB	2.59	0.50
1:B:1103:VAL:HB	1:B:1104:PRO:HD3	1.92	0.50
1:B:1369:PHE:HD2	1:B:1373:LEU:CD2	2.24	0.50
1:A:382:ASN:ND2	1:A:383:LYS:H	2.10	0.50
1:A:129:TYR:CE2	1:A:133:VAL:HG21	2.47	0.49
1:B:1025:LEU:HD22	1:B:1376:ARG:HB2	1.93	0.49
1:B:1166:THR:HG23	1:B:1168:SER:N	2.27	0.49
1:A:261:GLY:HA2	1:A:321:GLU:O	2.13	0.49
1:C:2261:GLY:HA2	1:C:2321:GLU:O	2.12	0.49
1:B:1201:THR:CG2	1:B:1202:ASN:N	2.76	0.49
1:B:1078:THR:HA	1:B:1081:LEU:HG	1.94	0.49
1:B:1269:THR:HG22	2:B:3047:HOH:O	2.12	0.49
1:B:1380:ARG:HG2	1:B:1380:ARG:HH11	1.78	0.48
1:A:90:ASN:ND2	1:A:90:ASN:C	2.61	0.48
1:A:101:GLU:O	1:A:104:PRO:HD2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1350:LEU:O	1:B:1363:GLU:HB2	2.13	0.48
1:B:1320:GLN:CA	1:B:1320:GLN:HE21	2.26	0.48
1:B:1283:TRP:CZ3	1:B:1290:MSE:HE1	2.48	0.48
1:B:1355:SER:OG	1:B:1356:GLU:N	2.46	0.48
1:A:185:TYR:OH	1:A:195:PRO:HD2	2.13	0.48
1:A:90:ASN:ND2	1:A:92:ASN:H	2.12	0.48
1:C:2185:TYR:OH	1:C:2195:PRO:HD2	2.14	0.48
1:A:175:GLU:HA	1:A:201:THR:CG2	2.43	0.48
1:C:2250:TYR:HB2	1:C:2310:LEU:CD1	2.43	0.48
1:C:2090:ASN:ND2	1:C:2092:ASN:H	2.12	0.48
1:A:379:LEU:HD23	1:A:379:LEU:N	2.29	0.47
1:A:132:GLN:NE2	2:A:4099:HOH:O	2.46	0.47
1:B:1261:GLY:HA2	1:B:1321:GLU:O	2.14	0.47
1:A:320:GLN:HE21	1:A:320:GLN:HA	1.79	0.47
1:C:2129:TYR:O	1:C:2133:VAL:HG23	2.14	0.47
1:A:166:THR:CG2	1:A:168:SER:O	2.63	0.47
1:B:1085:MSE:HE3	1:B:1102:ILE:HD12	1.94	0.47
1:C:2025:LEU:HA	1:C:2028:MSE:HE3	1.95	0.47
1:A:197:HIS:HD1	1:A:199:PHE:HD2	1.62	0.47
1:A:375:ASP:O	1:A:379:LEU:HG	2.15	0.47
1:C:2243:ALA:O	1:C:2244:SER:HB3	2.13	0.47
1:C:2036:GLY:CA	1:C:2077:SER:HB3	2.45	0.47
1:B:1061:ASN:OD1	1:B:1063:ASP:HB2	2.15	0.47
1:C:2173:SER:HA	1:C:2175:GLU:OE2	2.15	0.47
1:C:2320:GLN:HE21	1:C:2321:GLU:N	2.11	0.47
1:B:1379:LEU:CD2	1:B:1379:LEU:N	2.77	0.47
1:A:37:GLY:O	1:A:40:ARG:HB2	2.14	0.47
1:C:2237:GLN:HA	1:C:2246:ARG:HE	1.80	0.47
1:A:175:GLU:HA	1:A:201:THR:HG23	1.96	0.47
1:B:1361:THR:OG1	1:B:1364:GLU:CG	2.64	0.46
1:A:205:ASN:HD21	1:A:207:ASP:HB2	1.78	0.46
1:A:108:GLU:HG2	1:A:109:HIS:CD2	2.50	0.46
1:B:1205:ASN:HD21	1:B:1207:ASP:HB2	1.80	0.46
1:A:197:HIS:ND1	1:A:199:PHE:HD2	2.13	0.46
1:C:2065:ARG:CB	1:C:2095:PRO:HG2	2.44	0.46
1:A:203:THR:OG1	1:A:205:ASN:ND2	2.49	0.46
1:A:167:LYS:O	1:A:167:LYS:HG2	2.14	0.46
1:A:31:VAL:HG22	1:A:72:VAL:HB	1.97	0.46
1:A:175:GLU:CG	1:A:203:THR:HG22	2.44	0.46
1:A:229:ILE:HD12	1:A:303:LEU:CD2	2.46	0.46
1:C:2112:GLN:HB2	1:C:2129:TYR:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2175:GLU:HA	1:C:2201:THR:HG23	1.96	0.46
1:B:1082:LEU:C	1:B:1082:LEU:HD12	2.36	0.46
1:B:1382:ASN:ND2	1:B:1382:ASN:N	2.64	0.46
1:A:119:GLN:HE22	1:A:122:GLY:HA3	1.81	0.46
1:B:1148:THR:O	1:B:1167:LYS:HD3	2.16	0.46
1:A:112:GLN:HB2	1:A:129:TYR:CE2	2.51	0.46
1:C:2039:ILE:HD11	1:C:2330:GLU:O	2.16	0.46
1:A:202:ASN:ND2	1:A:206:GLY:O	2.48	0.45
1:B:1279:THR:H	1:B:1282:HIS:CD2	2.34	0.45
1:C:2175:GLU:HA	1:C:2201:THR:CG2	2.46	0.45
1:B:1175:GLU:HA	1:B:1201:THR:HG23	1.98	0.45
1:A:39:ILE:H	1:A:39:ILE:HG13	1.48	0.45
1:C:2101:GLU:O	1:C:2104:PRO:HD2	2.16	0.45
1:A:106:TYR:HB3	1:A:339:MSE:CE	2.46	0.45
1:A:320:GLN:HE21	1:A:321:GLU:N	2.12	0.45
1:A:250:TYR:HB2	1:A:310:LEU:CD1	2.47	0.45
1:B:1229:ILE:HA	1:B:1229:ILE:HD12	1.75	0.45
1:C:2182:ASP:OD1	1:C:2197:HIS:HE1	2.00	0.45
1:B:1283:TRP:HZ3	1:B:1290:MSE:HE1	1.81	0.45
1:B:1250:TYR:HB2	1:B:1310:LEU:CD1	2.44	0.45
1:A:82:LEU:O	1:A:82:LEU:HD12	2.16	0.45
1:A:61:ASN:OD1	1:A:63:ASP:HB2	2.16	0.45
1:A:237:GLN:HA	1:A:246:ARG:HE	1.82	0.45
1:A:156:ASP:HA	1:A:212:ASN:O	2.17	0.44
1:B:1175:GLU:CG	1:B:1203:THR:HG22	2.46	0.44
1:A:173:SER:HA	1:A:175:GLU:OE2	2.17	0.44
1:B:1341:LEU:O	1:B:1345:VAL:HG12	2.17	0.44
1:A:201:THR:CG2	1:A:202:ASN:N	2.74	0.44
1:C:2042:ILE:HD11	1:C:2339:MSE:HE2	2.00	0.44
1:A:243:ALA:O	1:A:244:SER:HB3	2.16	0.44
1:B:1237:GLN:HA	1:B:1246:ARG:HE	1.82	0.44
1:B:1320:GLN:NE2	1:B:1321:GLU:H	2.12	0.44
1:B:1040:ARG:HD2	1:B:1260:THR:O	2.18	0.44
1:C:2324:LEU:HB3	1:C:2328:THR:HG22	1.99	0.44
1:A:325:THR:O	1:A:328:THR:HB	2.17	0.44
1:B:1220:THR:O	1:B:1220:THR:HG22	2.18	0.44
1:C:2203:THR:OG1	1:C:2207:ASP:HB2	2.17	0.44
1:C:2156:ASP:HA	1:C:2212:ASN:O	2.18	0.44
1:B:1369:PHE:CE2	1:B:1373:LEU:HD21	2.53	0.44
1:A:36:GLY:CA	1:A:77:SER:HB3	2.47	0.44
1:B:1279:THR:H	1:B:1282:HIS:HD2	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:175:GLU:CA	1:A:201:THR:HG21	2.47	0.43
1:A:382:ASN:ND2	1:A:383:LYS:HG2	2.32	0.43
1:A:78:THR:HA	1:A:81:LEU:HG	1.99	0.43
1:A:205:ASN:HD22	1:A:205:ASN:C	2.21	0.43
1:B:1342:LEU:O	1:B:1345:VAL:HG13	2.17	0.43
1:B:1173:SER:HA	1:B:1175:GLU:OE2	2.17	0.43
1:B:1286:VAL:HG23	1:B:1290:MSE:CE	2.38	0.43
1:A:134:LEU:O	1:A:138:LEU:HD22	2.18	0.43
1:B:1096:PHE:CZ	1:B:1137:LYS:HG2	2.54	0.43
1:B:1203:THR:OG1	1:B:1207:ASP:HB2	2.18	0.43
1:B:1205:ASN:HD22	1:B:1205:ASN:C	2.21	0.43
1:C:2327:THR:OG1	1:C:2338:ASN:ND2	2.51	0.43
1:C:2203:THR:OG1	1:C:2205:ASN:ND2	2.52	0.43
1:C:2023:ALA:HB1	2:C:3390:HOH:O	2.17	0.43
1:B:1243:ALA:O	1:B:1244:SER:HB3	2.19	0.43
1:C:2265:GLU:HG2	2:C:3668:HOH:O	2.19	0.43
1:C:2197:HIS:HD2	2:C:4048:HOH:O	2.02	0.42
1:C:2082:LEU:HD12	1:C:2082:LEU:C	2.39	0.42
1:C:2037:GLY:O	1:C:2040:ARG:HB2	2.19	0.42
1:A:341:LEU:O	1:A:345:VAL:HG12	2.19	0.42
1:C:2308:GLN:HG2	2:C:3666:HOH:O	2.19	0.42
1:B:1175:GLU:HA	1:B:1201:THR:CG2	2.49	0.42
1:B:1031:VAL:HG22	1:B:1072:VAL:HB	2.02	0.42
1:B:1320:GLN:HA	1:B:1320:GLN:NE2	2.33	0.42
1:A:170:LEU:HG	1:A:170:LEU:H	1.72	0.42
1:C:2320:GLN:CA	1:C:2320:GLN:HE21	2.33	0.42
1:A:82:LEU:C	1:A:82:LEU:HD12	2.40	0.42
1:A:336:GLU:O	1:A:340:GLU:HG3	2.20	0.42
1:C:2049:GLU:HG3	1:C:2100:LYS:CA	2.46	0.42
1:A:342:LEU:HA	1:A:345:VAL:CG1	2.50	0.42
1:C:2175:GLU:CD	1:C:2175:GLU:H	2.22	0.42
1:B:1355:SER:O	1:B:1356:GLU:C	2.58	0.42
1:A:103:VAL:N	1:A:104:PRO:CD	2.82	0.42
1:A:361:THR:OG1	1:A:364:GLU:CG	2.67	0.42
1:B:1156:ASP:HA	1:B:1212:ASN:O	2.19	0.42
1:C:2324:LEU:HD22	1:C:2328:THR:HG22	2.01	0.41
1:A:96:PHE:CZ	1:A:137:LYS:HG3	2.54	0.41
1:A:229:ILE:HD12	1:A:303:LEU:HD21	2.02	0.41
1:A:119:GLN:NE2	1:A:121:LEU:C	2.73	0.41
1:C:2336:GLU:OE1	1:C:2340:GLU:OE2	2.38	0.41
1:A:203:THR:OG1	1:A:207:ASP:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1182:ASP:OD1	1:B:1197:HIS:HE1	2.02	0.41
1:C:2254:LEU:HA	1:C:2254:LEU:HD12	1.96	0.41
1:C:2342:LEU:HA	1:C:2345:VAL:CG1	2.51	0.41
1:C:2205:ASN:C	1:C:2205:ASN:HD22	2.24	0.41
1:B:1168:SER:O	1:B:1170:LEU:HG	2.21	0.41
1:B:1381:ALA:HB1	1:B:1382:ASN:ND2	2.35	0.41
1:B:1342:LEU:HA	1:B:1345:VAL:CG1	2.50	0.41
1:B:1267:ASP:OD1	1:B:1268:LYS:NZ	2.50	0.41
1:C:2320:GLN:NE2	1:C:2321:GLU:H	2.15	0.41
1:B:1170:LEU:HD21	2:B:3291:HOH:O	2.20	0.41
1:C:2039:ILE:H	1:C:2039:ILE:HG13	1.40	0.41
1:C:2358:ASN:HD22	1:C:2358:ASN:C	2.25	0.41
1:B:1357:ASP:O	1:B:1359:PRO:CD	2.67	0.40
1:C:2341:LEU:O	1:C:2345:VAL:HG12	2.21	0.40
1:B:1380:ARG:HG2	1:B:1380:ARG:NH1	2.35	0.40
1:C:2048:LEU:HA	1:C:2048:LEU:HD23	1.91	0.40
1:B:1239:ASP:HA	1:B:1240:PRO:HD2	1.90	0.40
1:C:2190:ALA:HA	1:C:2215:ASP:HB2	2.03	0.40
1:C:2175:GLU:CA	1:C:2201:THR:HG21	2.51	0.40
1:C:2200:VAL:CG1	1:C:2201:THR:N	2.84	0.40
1:A:328:THR:HA	1:A:338:ASN:HD21	1.87	0.40
1:B:1040:ARG:HB3	1:B:1260:THR:HB	2.02	0.40
1:B:1190:ALA:HA	1:B:1215:ASP:HB2	2.03	0.40
1:C:2158:LYS:HZ2	1:C:2212:ASN:ND2	2.16	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	358/373 (96%)	337 (94%)	15 (4%)	6 (2%)	11 7

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	357/373 (96%)	335 (94%)	19 (5%)	3 (1%)	24	22
1	C	360/373 (96%)	340 (94%)	18 (5%)	2 (1%)	30	29
All	All	1075/1119 (96%)	1012 (94%)	52 (5%)	11 (1%)	19	16

All (11) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	244	SER
1	A	358	ASN
1	B	1244	SER
1	B	1356	GLU
1	C	2244	SER
1	A	120	ILE
1	A	169	ASN
1	A	359	PRO
1	B	1380	ARG
1	C	2037	GLY
1	A	37	GLY

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	302/300 (101%)	265 (88%)	37 (12%)	6	5
1	B	302/300 (101%)	271 (90%)	31 (10%)	9	8
1	C	304/300 (101%)	278 (91%)	26 (9%)	13	12
All	All	908/900 (101%)	814 (90%)	94 (10%)	9	8

All (94) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	39	ILE
1	A	82	LEU
1	A	85	MSE

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Mol	Chain	Res	Type
1	A	87	SER
1	A	90	ASN
1	A	108	GLU
1	A	119	GLN
1	A	120	ILE
1	A	137	LYS
1	A	138	LEU
1	A	142	ARG
1	A	166	THR
1	A	169	ASN
1	A	201	THR
1	A	205	ASN
1	A	210	GLU
1	A	238	LYS
1	A	244	SER
1	A	246	ARG
1	A	252	LYS
1	A	264	SER
1	A	265	GLU
1	A	269	THR
1	A	320	GLN
1	A	328	THR
1	A	345	VAL
1	A	347	GLU
1	A	350	LEU
1	A	351	LYS
1	A	355	SER
1	A	356	GLU
1	A	358	ASN
1	A	364	GLU
1	A	367	LYS
1	A	379	LEU
1	A	380	ARG
1	A	382	ASN
1	B	1024	GLN
1	B	1025	LEU
1	B	1027	GLU
1	B	1082	LEU
1	B	1090	ASN
1	B	1100	LYS
1	B	1108	GLU
1	B	1137	LYS

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Mol	Chain	Res	Type
1	B	1166	THR
1	B	1169	ASN
1	B	1201	THR
1	B	1205	ASN
1	B	1229	ILE
1	B	1238	LYS
1	B	1244	SER
1	B	1252	LYS
1	B	1265	GLU
1	B	1269	THR
1	B	1317	LEU
1	B	1320	GLN
1	B	1345	VAL
1	B	1350	LEU
1	B	1351	LYS
1	B	1355	SER
1	B	1356	GLU
1	B	1358	ASN
1	B	1364	GLU
1	B	1373	LEU
1	B	1379	LEU
1	B	1380	ARG
1	B	1382	ASN
1	C	2039	ILE
1	C	2082	LEU
1	C	2090	ASN
1	C	2100	LYS
1	C	2108	GLU
1	C	2136	GLU
1	C	2137	LYS
1	C	2138	LEU
1	C	2166	THR
1	C	2167	LYS
1	C	2201	THR
1	C	2205	ASN
1	C	2238	LYS
1	C	2244	SER
1	C	2252	LYS
1	C	2265	GLU
1	C	2269	THR
1	C	2274	GLU
1	C	2320	GLN

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Mol	Chain	Res	Type
1	C	2332	ASP
1	C	2345	VAL
1	C	2350	LEU
1	C	2357	ASP
1	C	2358	ASN
1	C	2364	GLU
1	C	2380	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (36) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	90	ASN
1	A	112	GLN
1	A	119	GLN
1	A	132	GLN
1	A	145	GLN
1	A	169	ASN
1	A	205	ASN
1	A	320	GLN
1	A	338	ASN
1	A	358	ASN
1	A	382	ASN
1	B	1024	GLN
1	B	1090	ASN
1	B	1112	GLN
1	B	1145	GLN
1	B	1169	ASN
1	B	1197	HIS
1	B	1202	ASN
1	B	1205	ASN
1	B	1282	HIS
1	B	1320	GLN
1	B	1338	ASN
1	B	1348	ASN
1	B	1358	ASN
1	B	1382	ASN
1	C	2090	ASN
1	C	2112	GLN
1	C	2119	GLN
1	C	2145	GLN
1	C	2197	HIS
1	C	2205	ASN

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Mol	Chain	Res	Type
1	C	2212	ASN
1	C	2320	GLN
1	C	2338	ASN
1	C	2358	ASN
1	C	2382	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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](#)

EDS was not executed - this section will therefore be empty.

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

EDS was not executed - this section will therefore be empty.

6.3 Carbohydrates [i](#)

EDS was not executed - this section will therefore be empty.

6.4 Ligands [i](#)

EDS was not executed - this section will therefore be empty.

6.5 Other polymers [i](#)

EDS was not executed - this section will therefore be empty.