

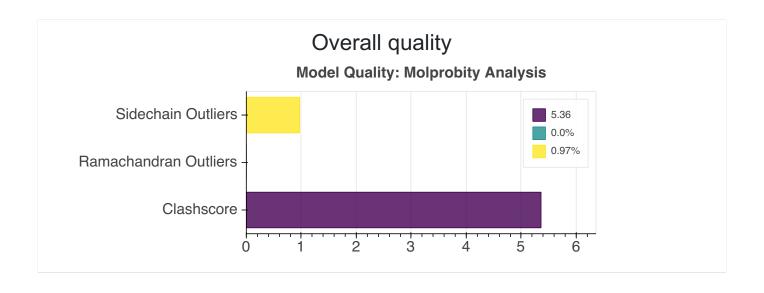
# Full wwPDB Integrative Structure Validation Report

July 06, 2020 -- 08:03 PM

The following software were used in the production of this report:

Molprobity: Version 4.4
Integrative Modeling Validation Package: Version 1.0

PDB ID	PDBDEV_00000006
Molecule Name	Serum Albumin Domain B Structure
Title	Serum Albumin Domain Structures in Human Blood Serum by Mass Spectrometry and Computational Biology
Authors	Belsom A;Schneider M;Fischer L;Brock O;Rappsilber J



### **Ensemble information**

This entry consists of 0 distinct ensemble.

### **Summary**

This entry consists of 5 unique models, with 1 subunits in each model. A total of 2 datasets or restraints was used to build this entry. Each model is represented by 1 rigid bodies and 0 flexible or non-rigid units.

### **Entry composition**

There are 5 unique types of models in this entry. These models are titled Best scoring model (domain B), 2nd best scoring model (domain B), 3rd best scoring model (domain B), 4th best scoring model (domain B) respectively.

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Total residues
1	1	1	HSA_B	А	189
2	1	1	HSA_B	А	189
3	1	1	HSA_B	А	189
4	1	1	HSA_B	А	189
5	1	1	HSA_B	А	189

## Methodology and software

Step number	Protocol ID	Method name	Method type	Number of computed models	Multi state modeling	Multi scale modeling
1	1	Model-based search (MBS) in Rosetta	Conformational search	5000	False	False

# Data quality

# Model quality Standard geometry

There are 7400 bond outliers in this entry.

Bond type	Observed distance (Å)	Ideal distance (Å)	Number of outliers
CD2HD2	1.089	0.93	104
CE2HE2	1.088	0.93	79
CD1HD1	1.088	0.93	84
CE1HE1	1.089	0.93	104
CH2HH2	1.089	0.93	4
CZ2HZ2	1.089	0.93	4
CZ3HZ3	1.089	0.93	4
CZHZ	1.088	0.93	44
CE3HE3	1.088	0.93	4
NEHE	1.011	0.86	34
NH2HH21	1.01	0.86	34
NH	1.008	0.86	899
NE2HE2	1.009	0.86	24
NH1HH11	1.009	0.86	34
NH1HH12	1.009	0.86	34
NE1HE1	1.009	0.86	4
NH2HH22	1.008	0.86	34
NE2HE21	1.0	0.86	24

Bond type	Observed distance (Å)	Ideal distance (Å)	Number of outliers
ND2HD21	0.999	0.86	19
NE2HE22	0.999	0.86	24
ND2HD22	0.998	0.86	19
CGHG2	1.088	0.97	304
CGHG3	1.088	0.97	304
CBHB2	1.087	0.97	819
CBHB3	1.087	0.97	819
CDHD2	1.089	0.97	164
CDHD3	1.089	0.97	164
CAHA	1.088	0.97	929
SGHG	1.328	1.2	54
NZHZ2	1.009	0.89	89
CD2HD21	1.089	0.97	104
CAHA2	1.089	0.97	14
CG1HG11	1.089	0.97	59
CG1HG13	1.089	0.97	79
NZHZ1	1.009	0.89	89
CEHE2	1.088	0.97	99
OG1HG1	0.96	0.84	29
CD2HD23	1.089	0.97	104
CD1HD12	1.089	0.97	124
OGHG	0.959	0.84	49
CD2HD22	1.089	0.97	104

Bond type	Observed distance (Å)	Ideal distance (Å)	Number of outliers
CD1HD11	1.089	0.97	124
CG1HG12	1.088	0.97	79
CG2HG23	1.088	0.97	109
CGHG	1.089	0.97	104
СВНВ	1.088	0.97	109
CEHE3	1.088	0.97	99
NZHZ3	1.009	0.89	89
ОННН	0.959	0.84	34
CG2HG21	1.088	0.97	109
CBHB1	1.088	0.97	104
CG2HG22	1.088	0.97	109
CEHE1	1.09	0.97	9
CAHA3	1.088	0.97	14
CD1HD13	1.088	0.97	124
NH1	1.0	0.89	4
NH3	1.0	0.89	4
NH2	1.0	0.89	4

There are 119 angle outliers in this entry.

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
CA-CB-HB3	93.397	109.0	19
CB-CG-HG3	B-CG-HG3 94.637		24
CB-CG-HG2	122.721	109.0	24
H1-N-H3	97.224	109.47	4

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
H2-N-H3	97.206	109.47	4
H1-N-H2	97.229	109.47	4
CZ-NE-HE 105.873		117.9	33

#### Too-close contacts

The following all-atom clashscore is based on a MolProbity analysis. All-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The table below contains clashscores for all the models in this entry.

Model ID Clash score		Number of clashes
Model 1	5.36	16
Model 2	1.67	5
Model 3 4.02		12
Model 4	2.01	6
Model 5	2.68	8

All 47 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

### Torsion angles: Protein backbone

In the following table, Ramachandran outliers are listed. The Analysed column shows the number of residues for which the backbone conformation was analysed.

Model ID	Analyzed	Favored	Allowed	Outliers
1	187	184	3	0
2	187	186	1	0
3	187	186	1	0
4	187	182	5	0
5	187	185	2	0

Detailed list of outliers are tabulated below.

Model ID Chain and res ID Residue type	
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### Torsion angles: Protein sidechains

In the following table, sidechain outliers are listed. The Analysed column shows the number of residues for which the sidechain conformation was analysed.

Model ID	Analyzed	Favored	Allowed	Outliers
1	165	157	4	4
2	165	165	0	0
3	165	161	3	1
4	165	162	1	2
5	165	163	1	1

Detailed list of outliers are tabulated below.

Model ID	Chain and res ID	Residue type
1	A:18	LEU
1	A:74	LEU
1	A:130	LEU
1	A:156	LEU
3	A:59	LEU
4	A:18	LEU
4	A:50	LEU
5	A:18	LEU

# Fit of model to data used for modeling

# Fit of model to data not used for modeling

