



Analysis output: all-atom contacts and geometry for CEACAM16_21-223H.pdb

Summary statistics

All-Atom Contacts	Clashscore, all atoms:	59.15		2 nd percentile* (N=1784, all resolutions)
	Clashscore is the number of serious steric overlaps (> 0.4 Å) per 1000 atoms.			
Protein Geometry	Poor rotamers	12	7.10%	Goal: <0.3%
	Favored rotamers	141	83.43%	Goal: >98%
	Ramachandran outliers	25	12.44%	Goal: <0.05%
	Ramachandran favored	144	71.64%	Goal: >98%
	MolProbity score^	3.72		5 th percentile* (N=27675, 0Å - 99Å)
	Cβ deviations >0.25Å	0	0.00%	Goal: 0
	Bad bonds:	13 / 1593	0.82%	Goal: 0%
	Bad angles:	22 / 2181	1.01%	Goal: <0.1%
Peptide Omegas	Cis Prolines:	1 / 15	6.67%	Expected: ≤1 per chain, or ≤5%
	Cis nonProlines:	1 / 187	0.53%	Goal: <0.05%
	Twisted Peptides:	2 / 202	0.99%	Goal: 0

In the two column results, the left column gives the raw count, right column gives the percentage.

* 100th percentile is the best among structures of comparable resolution; 0th percentile is the worst. For clashscore the comparative set of structures was selected in 2004, for MolProbity score in 2006.

[^] MolProbity score combines the clashscore, rotamer, and Ramachandran evaluations into a single score, normalized to be on the same scale as X-ray resolution.

By adding H to this model and allowing Asn/Gln/His flips, we could *automatically* improve your clashscore by 0.65 points.

Multi-criterion visualizations



[View \(233 Kb\)](#)

Single-criterion visualizations

- **Clash list** (7.8 Kb): [View](#)
- **Ramachandran plot kinemage** (419 Kb): [View in KiNG](#) | [Download](#)
- **Ramachandran plot PDF** (1.7 Mb): [View](#)
- **C β deviation scatter plot** (21 Kb): [View in KiNG](#) | [Download](#)

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