**S9 Table.** Peptide-bound CAM conformers using blind search

|  |  |  |
| --- | --- | --- |
| Generation/ cycle | Total number of conformers in each cycle | Number of conformers within specificRMSD range to closed structure*a*  |
| 3-4 Å | 4-5 Å | 5-6 Å | 6-6.7 Å | >6.7 Å |
| 1 | 4 | 0 | 0 | 1 | 1 | 2 |
| 2 | 9 | 0 | 1 | 0 | 0 | 8 |
| 3 | 19 | 1 | 2 | 2 | 3 | 11 |
| All cycles | 32 | 1 | 3 | 3 | 4 | 21 |

*a* RMSD includes protein and peptide alpha-carbons.