

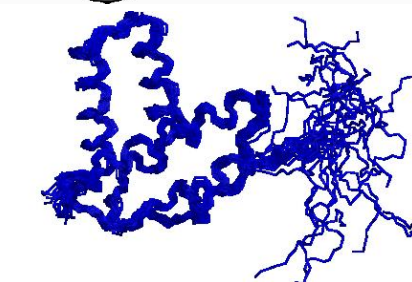
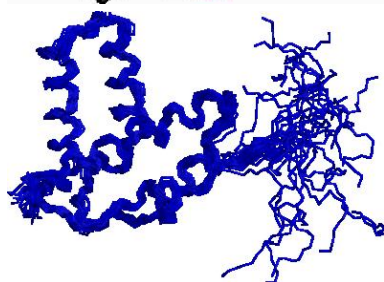
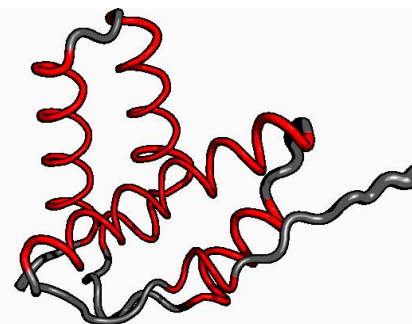
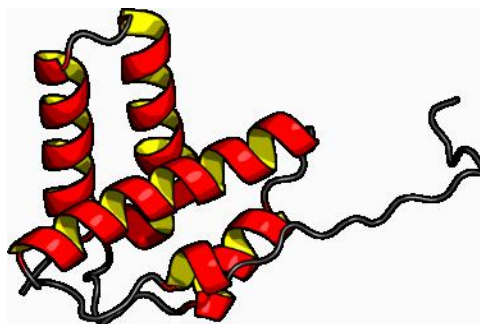


Structure Quality Analysis for NAME

Analyses performed for DAOP well-defined residues.

Procheck analysis, RMSD calculation and structure superimposition are based on DAOP with $S(\phi)+S(\psi)\geq 1.8$: 63A-157A

NESG ID: NAME
PDB ID:
Deposition date:
Common Name:
Class:
Length (a.a.): 108
Organism:
SwissProt /
TrEMBL ID:
models: 20
Oligomerization: monomer
Molecular
weight: 12441



Secondary Structure Elements:

alpha helices: 64A-78A, 82A-94A, 97A-100A, 109A-118A, 123A-142A

beta strands:

FIDs deposited in the BMRB? no

Comparison of core atoms:

DAOP > 1.8 Å : A:63..A:157

FindCore2 : A:61..A:161

CYRANGE : 63..157

RMSD	All residues	Ordered residues ²	Selected residues ³
All backbone atoms	2.9 Å	0.5 Å	0.5 Å
All heavy atoms	3.5 Å	1.0 Å	1.0 Å

Ramachandran Plot Summary for selected residues³ from Procheck

Most favoured regions	Additionally allowed regions	Generously allowed regions	Disallowed regions
94.0%	5.9%	0.1%	0.0%

Ramachandran Plot Summary for selected residues³ from Richardson Lab's Molprobrity



Structure Quality Analysis for NAME

Most favoured regions *Allowed regions* *Disallowed regions* [View plot](#) [View model summary](#)
98.5% 1.2% 0.3%

Global quality scores

Program	Verify3D	ProsaII (-ve)	Procheck (phi-psi) ³	Procheck (all) ³	MolProbity Clashscore
Raw score	0.07	0.65	0.27	0.16	18.83
Z-score ¹	-6.26	0.00	1.38	0.95	-1.71

Close Contacts and Deviations from Ideal Geometry (from PDB validation software)

Number of close contacts (within 1.6 Å for H atoms, 2.2 Å for heavy atoms): 13

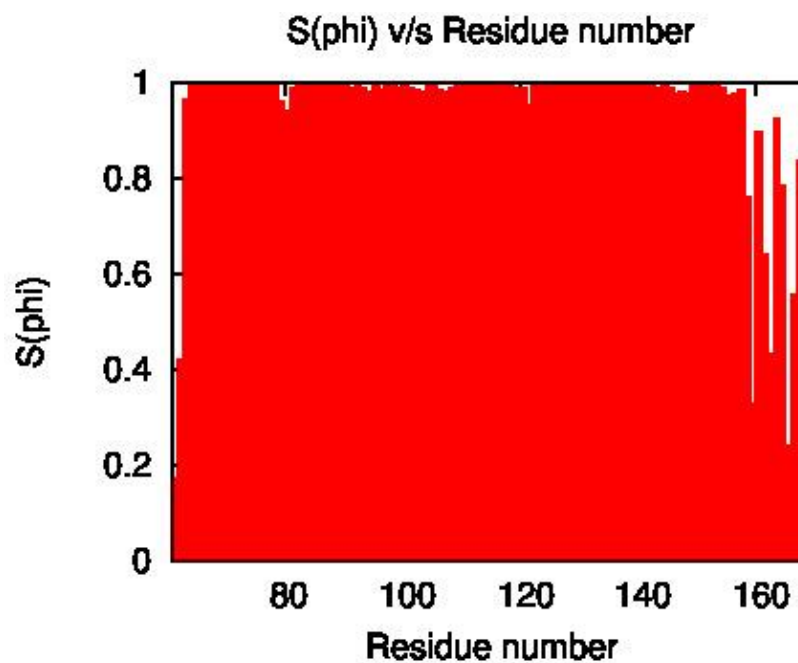
RMS deviation for bond angles: 0.6 °

RMS deviation for bond lengths: 0.004 Å

¹ With respect to mean and standard deviation for a set of 252 X-ray structures < 500 residues, of resolution ≤ 1.80 Å, R-factor ≤ 0.25 and R-free ≤ 0.28; a positive value indicates a 'better' score

² Ordered residues (DAOP): 63A-157A

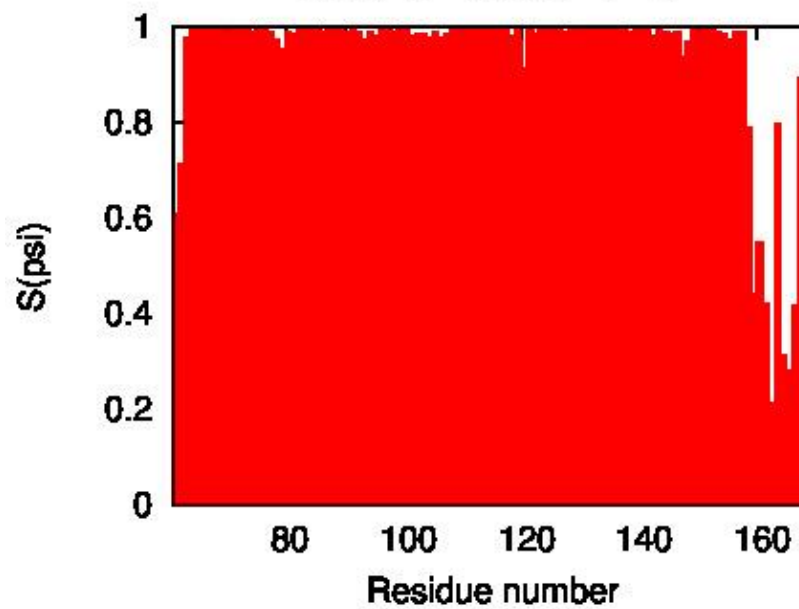
³ Selected residues DAOP with S(phi)+S(psi) ≥ 1.8 : 63A-157A



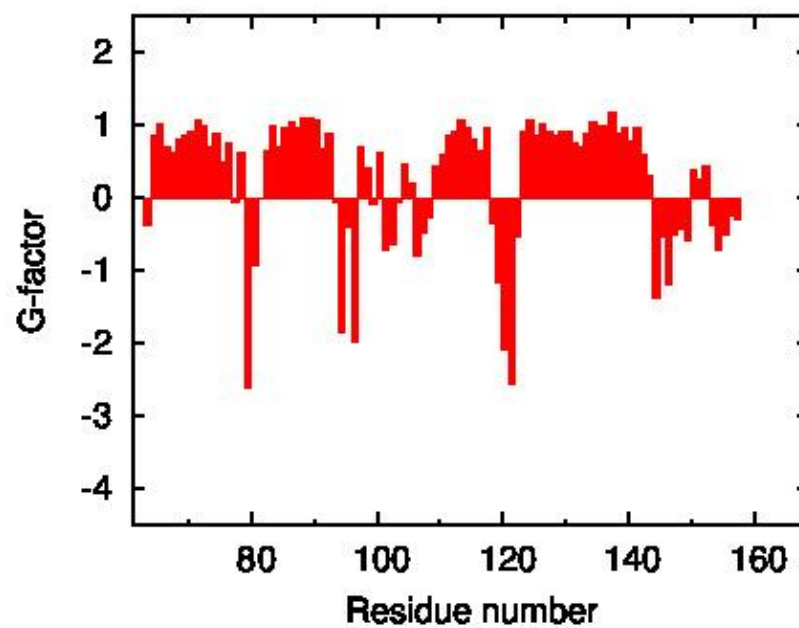


Structure Quality Analysis for NAME

S(psi) v/s Residue number

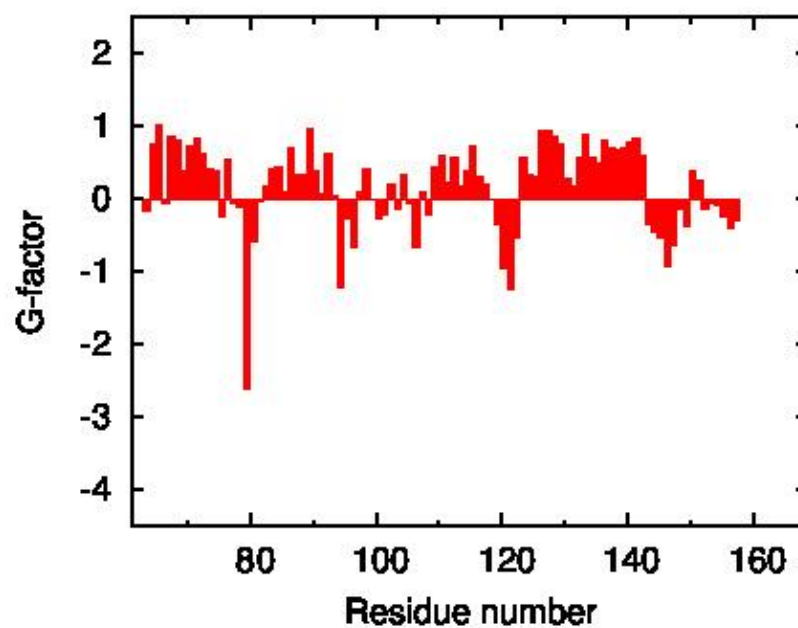


Procheck G-factor for phi-psi

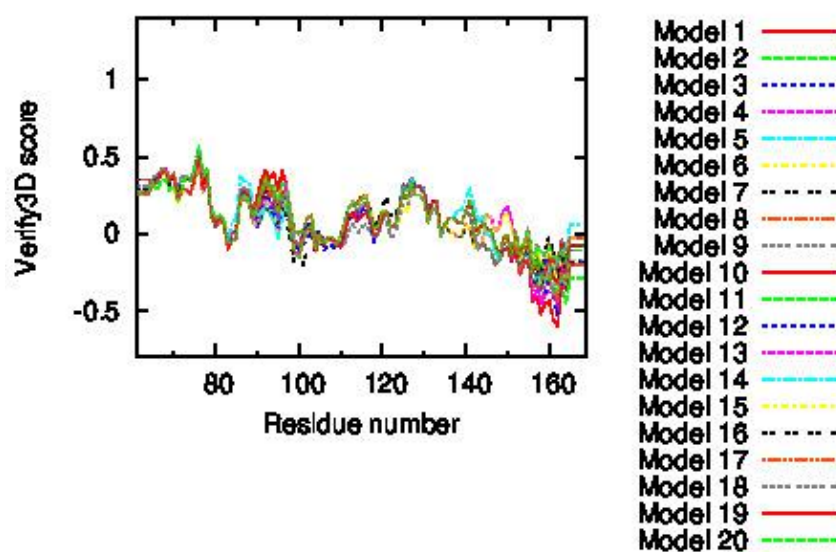




Procheck G-factor for all dihedral angles

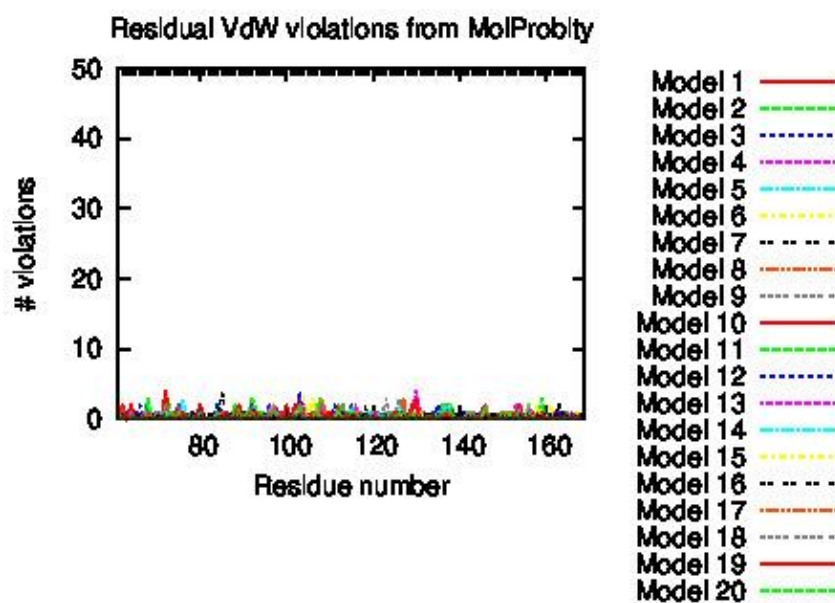
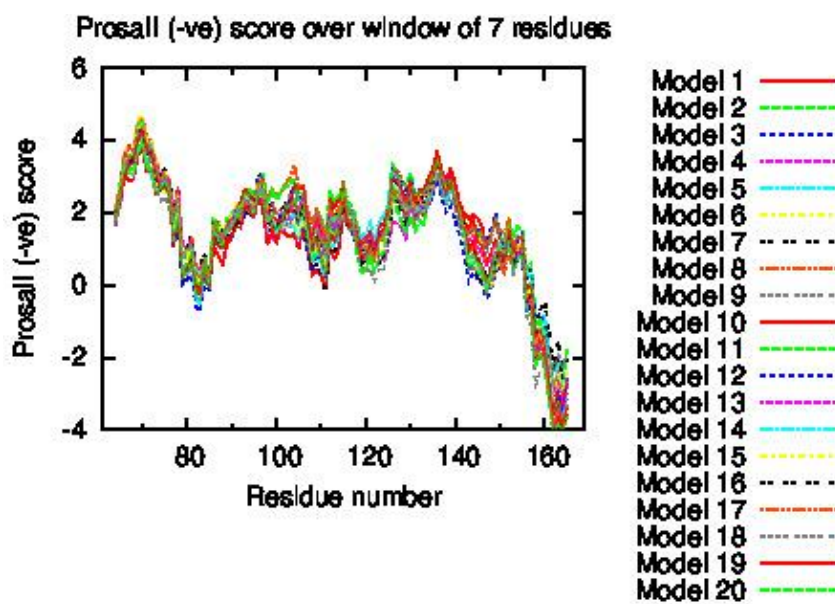


Verify3D score over window of 7 residues



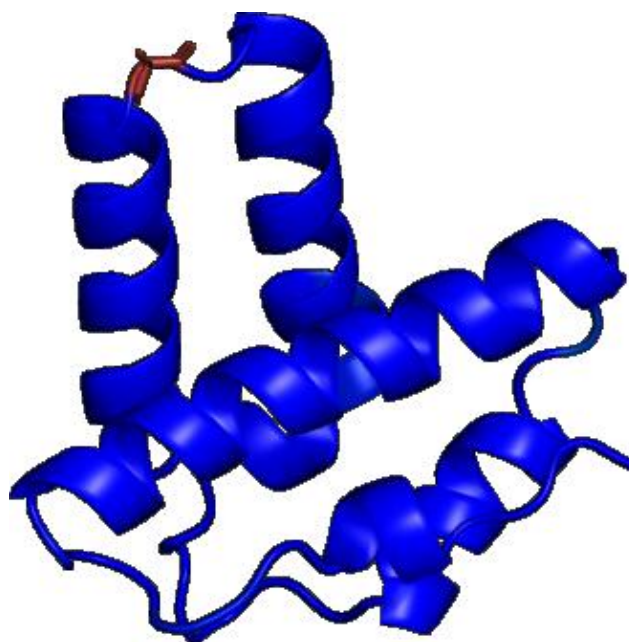


Structure Quality Analysis for NAME





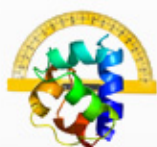
Structure Quality Analysis for NAME



Residue Plot of Ramachandran analysis(based on data from Richardson Lab's Molprobity)

References:

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Protein Structure Validation Suite (PSVS)





Software Environment

Software for structure quality evaluation:

DSSP	DsspCMBI-April-2000
pdostat	PdbStat-5.20.8 Version
AutoAssign	Version 2.4.0 (uses only AVS scripts)
RPF analysis	ASDP-2.3
PDB validation	Version 8.061
Verify3D	Version 1.0 corrected by Aneerban
ProsaII	Prosa2003
PROCHECK	Version 3.5.4

MolProbit programs:

cluster	1999
clashlistcluster	1999 (corrected by Aneerban)
mage	Version 6.35.040409
prekin	Version 6.35.040406
reduce	Version 2.14
probe	Version 2.6

Other Software:

PERL	Version 5.16.3
convert	ImageMagick 6.7.8
ps2pdf	Ghostscript 9.25
htmldoc	v1.8.28
gnuplot	Version 4.6.2
jpegtopnm	netpbm-progs 10.79.00
pnmcrop	netpbm-progs 10.79.00
pnmtojpeg	netpbm-progs 10.79.00

Information updated on October, 2021. RTT