Analyses performed for DAOP well-defined residues.

Procheck analysis, RMSD calculation and structure superimposition are based on DAOP with S(phi)+S(psi)>=1.8: 15A-22A, 27A-83A, 85A-94A

NESG ID: NAME

PDB ID:

Deposition date:

Common Name:

Class:

95 Length (a.a.):

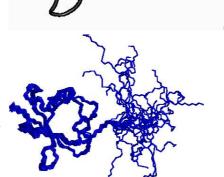
Organism: SwissProt / TrEMBL ID:

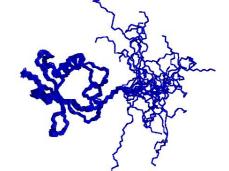
models: 20

Oligomerization: monomer

Molecular

10342 weight:





Secondary Structure Elements: alpha helices: 40A-51A, 79A-82A

beta strands: 28A-35A, 15A-22A, 89A-94A, 58A-64A, 67A-71A

FIDs deposited in the BMRB? no

Comparison of core atoms:

DAOP > 1.8 Å: A:15..A:22, A:27..A:52, A:55..A:82, A:85..A:94

FindCore2: A:13..A:95 **CYRANGE:** 14..95

Ordered residues² Selected residues³ **RMSD** All residues

3.6 Å 0.4~Å0.4 Å All backbone atoms 4.0 Å $0.7 \, \text{Å}$ 0.7 ÅAll heavy atoms

Ramachandran Plot Summary for selected residues³ from Procheck

Most favoured Additionally allowed regions Generously allowed regions Disallowed regions regions

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

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Most favoured regions	Allowed regions	Disallowed regions	View plot View model summary
94.2%	5.1%	0.7%	

Global quality scores

Program	Verify3D	ProsaII (-ve)	Procheck (phi-psi) ³	$Procheck\ (all)^3$	MolProbity Clashscore
Raw score	0.17	0.38	-0.16	0.05	14.22
Z-score ¹	-4.65	-1.12	-0.31	0.30	-0.91

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

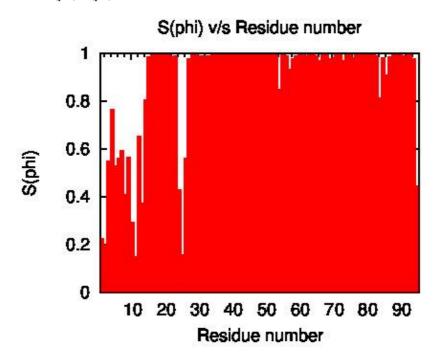
Number of close contacts (within 1.6 & Aring for H atoms, 2.2 & Aring for heavy atoms): 9

RMS deviation for bond angles: 1.7°

RMS deviation for bond lengths:

0.019 Å

³ Selected residues DAOP with S(phi)+S(psi)>=1.8:15A-22A, 27A-83A, 85A-94A

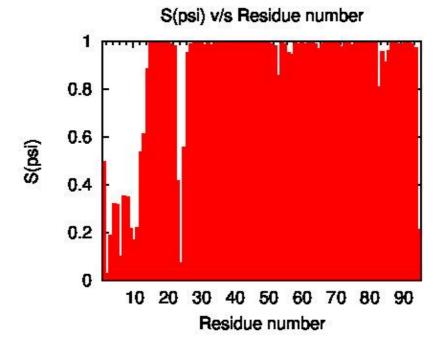


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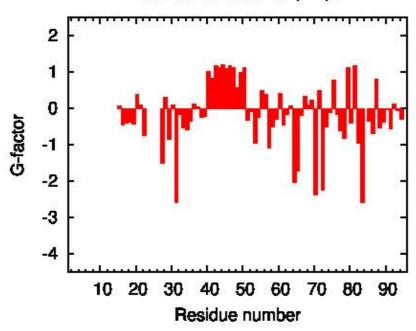
¹ With respect to mean and standard deviation for a set of 252 X-ray structures < 500 residues, of resolution <= 1.80 Å, R-factor <= 0.25 and R-free <= 0.28; a positive value indicates a 'better' score

² Ordered residues (DAOP): 15A-22A, 27A-83A, 85A-94A



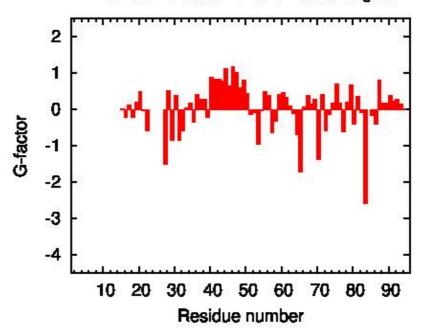


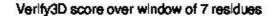
Procheck G-factor for phi-psi

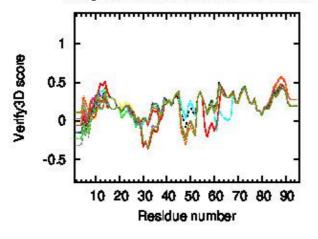


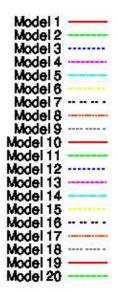


Procheck G-factor for all dihedral angles

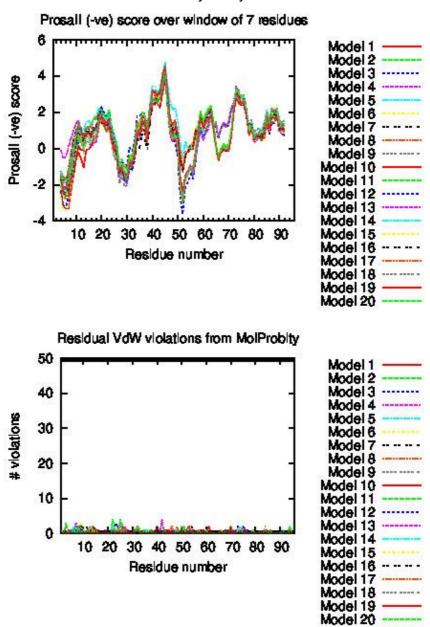




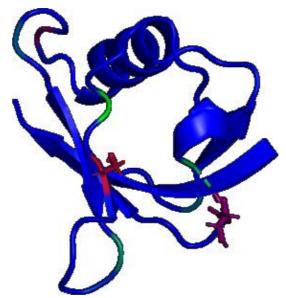












Residue Plot of Ramachandran anlysis(based on data from Richardson Lab's Molprobity)

References:

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Protein Structure Validation Suite (PSVS)





Software Environment

Software for structure quality evaluation:

DSSP DsspCMBI-April-2000 PdbStat-5.20.8 Version pdbstat

AutoAssign 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

Verify3D Version 1.0 c ProsaII Prosa2003 PROCHECK Version 3.5.4

MolProbity programs:

cluster 1999

clashlistcluster 1999 (corrected by Aneerban)

mage Version 0.35.040406

Version 6.35.040406

reduce Version 2.14 Version 2.6 probe

Other Software:

PERL Version 5.16.3 PEKL convert ImageMagick 6.7.8 ps2pdf Ghostscript 9.25

v1.8.28 htmldoc

gnuplot Version 4.6.2

netpbm-progs 10.79.00 jpegtopnm netpbm-progs 10.79.00 pnmcrop pnmtojpeg netpbm-progs 10.79.00

Information updated on October, 2021. RTT

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