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-26A, 28A-30A, 32A-94A

**NESG ID:** NAME

PDB ID:

**Deposition date:** 

**Common Name:** 

Class:

**Length (a.a.):** 95

Organism:
SwissProt /
TrEMBL ID:
# models: 5

Oligomerization: monomer

Molecular

weight:

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

beta strands: 29A-35A, 15A-22A, 88A-93A, 59A-64A, 67A-72A

FIDs deposited in the BMRB? no

**Comparison of core atoms:** 

**DAOP > 1.8 Å:** A:15..A:24, A:28..A:30, A:32..A:94

**FindCore2**: A:14..A:26, A:28..A:95 **CYRANGE**: 3..16, 17..23, 32..94

RMSD All residues Ordered residues<sup>2</sup> Selected residues<sup>3</sup>

Ramachandran Plot Summary for selected residues<sup>3</sup> from Procheck

Most favoured regions Additionally allowed regions Generously allowed regions Disallowed regions

93.9% 0.0% 0.0%

Ramachandran Plot Summary for selected residues<sup>3</sup> from Richardson Lab's Molprobity

Most favoured regions Allowed regions Disallowed regions View plot View model summary

98.2% 1.8% 0%

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Program	Verify3D	ProsaII (-ve)	Procheck (phi-psi) <sup>3</sup>	Procheck (all) <sup>3</sup>	MolProbity Clashscore
Raw score	0.15	N/A	-0.12	0.03	0.00
Z-score <sup>1</sup>	-4.98	N/A	-0.16	0.18	1.53

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

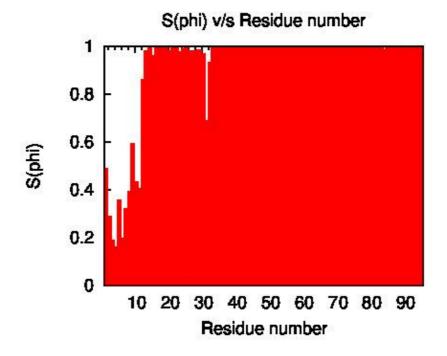
Number of close contacts (within 1.6 & Aring for H atoms, 2.2 & Aring for heavy atoms):

RMS deviation for bond angles:  $2.0^{\circ}$ 

RMS deviation for bond lengths:

 $0.011 \, \text{Å}$ 

<sup>&</sup>lt;sup>3</sup> Selected residues DAOP with S(phi)+S(psi)>=1.8:15A-26A, 28A-30A, 32A-94A



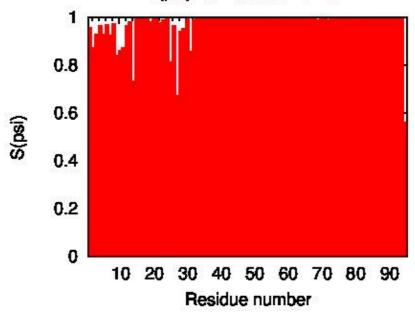
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 $<sup>^{1}</sup>$  With respect to mean and standard deviation for a set of 252 X-ray structures < 500 residues, of resolution <= 1.80 Å, R-factor <= 0.25 and R-free <= 0.28; a positive value indicates a 'better' score

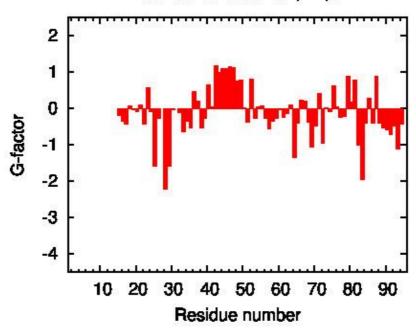
<sup>&</sup>lt;sup>2</sup> Ordered residues (DAOP): 15A-26A, 28A-30A, 32A-94A







## Procheck G-factor for phi-psi

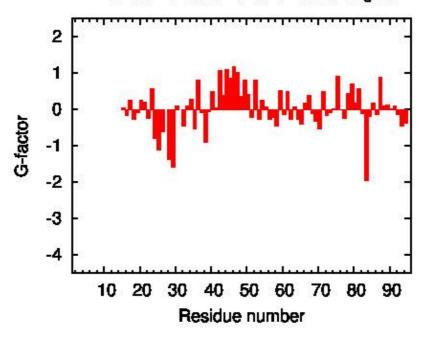


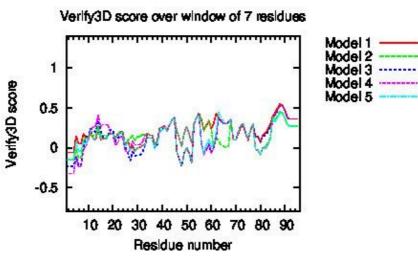
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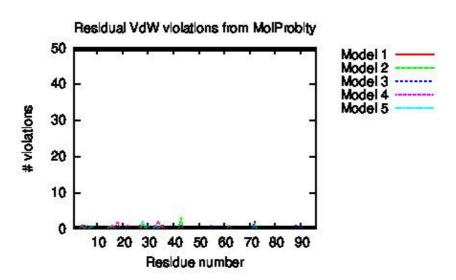




## Procheck G-factor for all dihedral angles

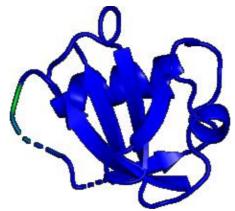






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#### Residue Plot of Ramachandran anlysis(based on data from Richardson Lab's Molprobity)

#### References:

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# Protein Structure Validation Suite (PSVS)



## **Software Environment**

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# Software for structure quality evaluation:

DSSP DsspCMBI-April-2000

pdbstat 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

## **MolProbity programs:**

1999

clashlistcluster 1999 (corrected by Aneerban)

Version 6.35.040409 Version 6.35.040406

prekin reduce Version 2.14 probe Version 2.6

## Other Software:

PERL Version 5.16.3 ImageMagick 6.7.8 Ghostscript 9.25 v1.8.28 convert ps2pdf htmldoc convert

Version 4.6.2 gnuplot

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

Information updated on October, 2021. RTT

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