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 : 2A-99A, 104A-106A

NESG ID: NAME

PDB ID:

Deposition date:

Common Name:

Class:

Length (a.a.): 111

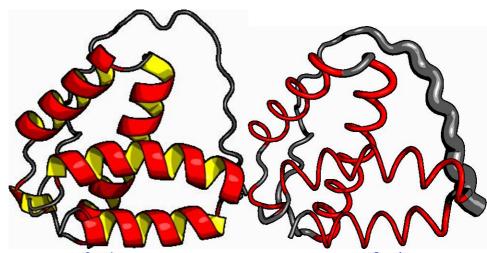
Organism: SwissProt/ **TrEMBL ID:**

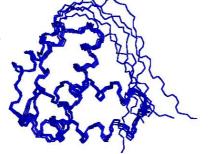
5 # models:

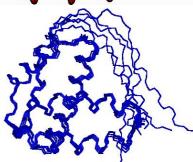
Oligomerization: monomer

Molecular

13095 weight:







Secondary Structure Elements:

alpha helices: 3A-16A, 19A-36A, 46A-59A, 62A-81A

beta strands:

FIDs deposited in the BMRB? no

Comparison of core atoms:

DAOP > 1.8 Å: A:2..A:99, A:104..A:106

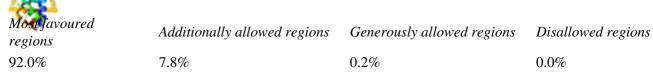
FindCore2: A:1..A:96 CYRANGE: 1..91

Ordered residues² Selected residues³ **RMSD** All residues

1.5 Å 0.9 Å $0.9~\mathrm{\AA}$ All backbone atoms 1.8 Å 1.0 Å 1.0 Å All heavy atoms

Ramachandran Plot Summary for selected residues³ from Procheck

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

Most favoured regions	Allowed regions	Disallowed regions	<u>View plot</u> <u>View model summary</u>
95.4%	4.2%	0.4%	

Global quality scores

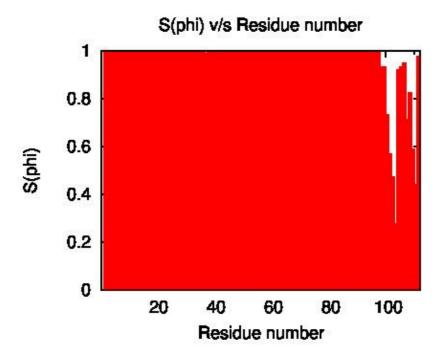
Program	Verify3D	ProsaII (-ve)	Procheck (phi-psi) ³	Procheck (all) ³	MolProbity Clashscore
Raw score	0.13	N/A	0.26	0.33	1.94
Z-score ¹	-5.30	N/A	1.34	1.95	1.19

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): 0 RMS deviation for bond angles: 1.9°

RMS deviation for bond lengths: 0.012 Å

³ Selected residues DAOP with S(phi)+S(psi)>=1.8: 2A-99A, 104A-106A

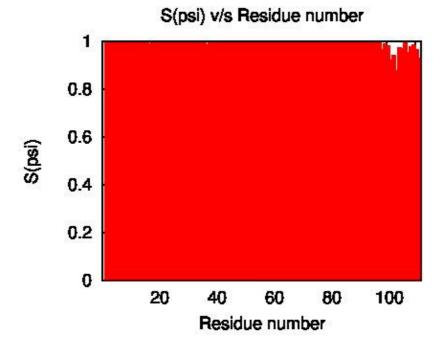


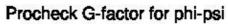
10/12/22

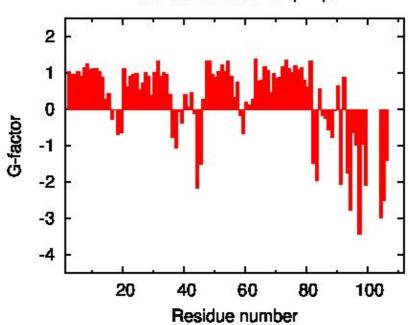
 $^{^{1}}$ With respect to mean and standard deviation for a set of 252 X-ray structures < 500 residues, of resolution <= 1.80 Å, R-factor <= 0.25 and R-free <= 0.28; a positive value indicates a 'better' score

² Ordered residues (DAOP): 2A-99A, 104A-106A







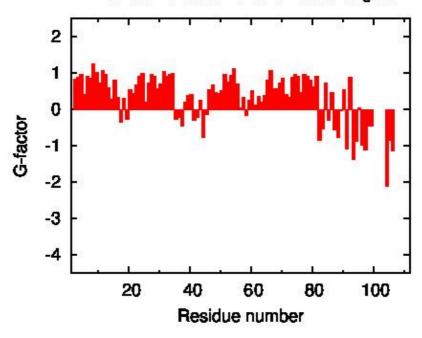


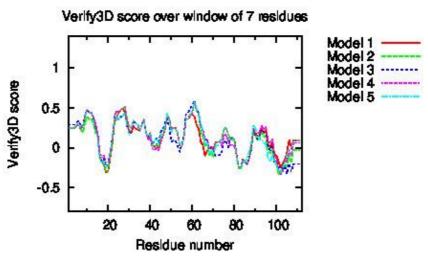
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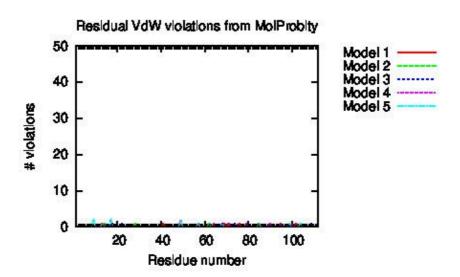




Procheck G-factor for all dihedral angles

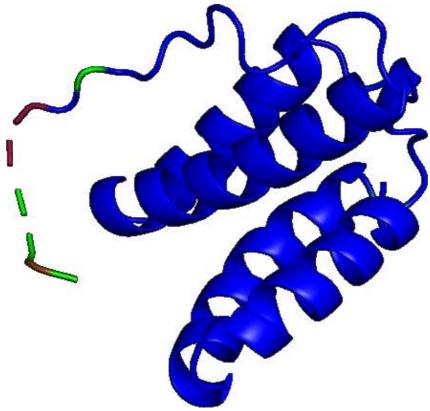






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Residue Plot of Ramachandran anlysis(based on data from Richardson Lab's Molprobity)

References:

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Protein Structure Validation Suite (PSVS)



Software Environment

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

Version 1.0 corrected by Aneerban

PDB Various

Verify3D Version 1

Prosa2003 PROCHECK Version 3.5.4

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 convert Ghostscript 9.25 ps2pdf

v1.8.28 htmldoc

gnuplot Version 4.6.2

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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