




























EBI > Databases > Structure Databases > ProFunc



Nest analysis results for ao15

Nests are structural motifs that are often found in functionally important regions of protein structures.

6 nests were located in this chain, as shown below.

Nest	Score	Residue range	View in RasMol	Residue	Ramachandran region	Solvent accessibility	Cleft	Depth in cleft	Residue conservation
1.	3.97	Cys552-Leu554 		Cys552	RIGHT	0.00%		25.57	 1.00
				Gly553	LEFT	0.00%	-		 1.00
				Leu554	-	0.00%	-		 0.91
2.	3.97	Lys533-Ala536 		Lys533	RIGHT	0.00%	-	26.19	 1.00
				Gly534	LEFT	0.00%	-		 1.00
				Glu535	RIGHT	0.00%			 0.87
				Ala536	-	0.00%	-		 1.00
3.	1.00	Gly71-Ala73 		Gly71	LEFT	0.00%	-		 1.00
				Gln72	RIGHT	0.00%	-		 1.00
				Ala73	-	0.00%	-		 1.00
4.	1.00	Asp131-Lys133 		Asp131	LEFT	0.00%	-		 1.00
				Glu132	RIGHT	0.00%	-		 1.00
				Lys133	-	0.00%	-		 1.00
5.	1.00	Arg174-Glu176 		Arg174	RIGHT	0.00%	-		 1.00
				His175	LEFT	0.00%	-		 1.00
				Glu176	-	0.00%	-		 1.00
6.	0.49	Lys246-Asp248 		Lys246	RIGHT	0.00%	-		 0.41
				His247	LEFT	0.00%	-		 0.90
				Asp248	-	0.00%	-		 0.17



Key to table entries

References

1. Watson JD and Milner-White EJ (2002). A novel main-chain anion-binding site in proteins: the nest. A particular combination of phi,psi values in successive residues gives rise to anion-binding sites that occur commonly and are found often at functionally important regions. *J. Mol. Biol.*, **315**, 171-82.
2. Watson JD and Milner-White EJ (2002). The conformations of polypeptide chains where the main-chain parts of successive residues are enantiomeric. Their occurrence in cation and anion-binding regions of proteins. *J. Mol. Biol.*, **315**, 183-191.
3. Pal D, Suhnel J and Weiss MS (2002). New principles of protein structure: nests, eggs - and what next? *Angew. Chem. Int. Ed.*, **41**, 4663-4665.