

**Table 5.  $\phi$  torsion angle restraints used in the solution structure calculations**

Residue	Range of $\phi$		Residue	Range of $\phi$		Residue	Range of $\phi$	
	From	To		From	To		From	To
113 TYR	-155.0	-80.0	159 ILE	-155.0	-80.0	205 THR	-80.0	-30.0
114 ILE	-155.0	-80.0	160 LEU	-155.0	-80.0	207 SER	-80.0	-30.0
115 THR	-155.0	-80.0	161 VAL	-155.0	-80.0	210 THR	-170.0	-95.0
116 TYR	-155.0	-80.0	162 VAL	-155.0	-80.0	212 LEU	-80.0	-30.0
117 ARG+	-155.0	-80.0	163 PHE	-155.0	-80.0	215 THR	-80.0	-30.0
118 ILE	-155.0	-80.0	164 ALA	-155.0	-80.0	216 ALA	-80.0	-30.0
120 ASN	-155.0	-80.0	165 ARG+	-155.0	-80.0	217 VAL	-80.0	-30.0
121 TYR	-155.0	-80.0	167 ALA	-155.0	-80.0	226 LEU	-155.0	-80.0
125 MET	-155.0	-80.0	171 ASP-	-80.0	-30.0	229 SER	-155.0	-80.0
126 ASN	-125.0	-50.0	174 PHE	-165.0	-90.0	231 ASP-	-155.0	-80.0
127 ARG+	-80.0	-30.0	180 ILE	-155.0	-80.0	233 LYS+	-80.0	-30.0
130 VAL	-80.0	-30.0	181 LEU	-80.0	-30.0	234 ALA	-130.0	-55.0
131 ASP-	-80.0	-30.0	182 ALA	-180.0	-105.0	236 MET	-80.0	-30.0
134 ILE	-80.0	-30.0	183 HIS	-180.0	-105.0	237 PHE	-125.0	-50.0
135 ARG+	-80.0	-30.0	184 ALA	-160.0	-85.0	239 THR	-155.0	-80.0
138 PHE	-80.0	-30.0	185 PHE	-160.0	-85.0	240 TYR	-155.0	-80.0
143 ASN	-100.0	-50.0	189 SER	-155.0	-80.0	241 LYS+	-155.0	-80.0
144 VAL	-85.0	-35.0	191 ILE	-110.0	-60.0	243 VAL	-155.0	-80.0
145 THR	-155.0	-80.0	194 ASP-	-130.0	-55.0	247 THR	-80.0	-30.0
147 LEU	-135.0	-60.0	195 ALA	-155.0	-80.0	249 ARG+	-160.0	-85.0
149 PHE	-140.0	-65.0	197 PHE	-155.0	-80.0	250 LEU	-160.0	-85.0
150 SER	-155.0	-80.0	199 GLU-	-80.0	-30.0	251 SER	-155.0	-80.0
151 LYS+	-155.0	-80.0	200 ASP-	-80.0	-30.0	253 ASP-	-80.0	-30.0
152 ILE	-155.0	-80.0	201 GLU-	-150.0	-75.0	254 ASP-	-110.0	-60.0
154 THR	-155.0	-80.0	202 PHE	-155.0	-80.0	255 ILE	-80.0	-30.0
156 MET	-155.0	-80.0	203 TRP	-155.0	-80.0	258 ILE	-70.0	-20.0
157 ALA	-155.0	-80.0	204 THR	-155.0	-80.0	260 SER	-80.0	-30.0