Observed correlation of hydrogen atoms with Specific protons in gCOSY and NOESY spectra of inclusion compound at 600MHz in D_2O

H	δ_H (ppm)	gCOSY			NOESY		
		ss	m	w	ss	m	w
H_1	1.581(s)						
H_{2a}	1.841(m)	H_{2e}	H_{3a}				H_{2e}
H_{2e}	2.112(m)		H_{3e}				H_{2a}
H_{3a}	2.325(m)	H_{3e}		H_{2a}		H_{3e}	
H_{3e}	2.804(m)	H_{3a}	H_{2e}			H_{3a}	
H_b	4.160(d)	H_a			H_a	H_c	
H_c	5.453(s)						
H_a	5.643(d)	H_b			H_b		

ss: Very intense, m: Fairly intense, w: Weak intense

Observed correlation of carbon atoms with specific protons in ^{13}C、DEPT、gHSQC and gHMBC Spectra of inclusion compound at 150MHz in D_2O

C	δ_c (ppm)	DEPT	gHSQC	gHMBC		
				ss	m	w
C_1	41.316	CH_3	H_1			
C_3	42.338	CH_2	H_{3a}、H_{3e}			
C_2	51.392	CH_2	H_{2a}、H_{2e}		H_1	
$C_{a,b}$	54.059	CH_2	H_a、H_b			
C_c	72.224	CH	H_c	H_a	H_b	H_c
C=O	157.030	C=O		H_a、H_b、H_c		

ss: Very intense, m: Fairly intense, w: Weak intense