Table S3. Spectroscopic data for iglu #1

Position	*iglu#1 δ ^{13}C [ppm]*	*iglu#1 δ ^{1}H [ppm]*	*iglu#2[1] δ ^{1}H [ppm]*	*iglu#1 ^{1}H-^{1}H-coupling constants [Hz]*	*iglu#1 HMBC correlations*
1	*86.5*	*5.46*	*5.55*	$J_{1,2}$ = *9.0*	*C-2, C-3, C-5, C-2', C-7a'*
2	*73.4*	*3.94*	*4.12*	$J_{2,3}$ = *9.0,*	*C-1, C-3*
3	*78.9*	*3.60*	*4.24 ($J_{H,P}$ = 8Hz)*	$J_{3,4}$ = *9.0*	*C-2, C-4*
4	*71.2*	*3.50*	*3.68*	$J_{4,5}$ = *9.0*	*C-3, C-5, C-6*
5	*80.4*	*3.58*		$J_{5,6a}$ = *5.8*	*C-1, C-3, C-6*
6a	*62.5*	*3.70*		$J_{6a,6b}$ = *12.1*	*C-4, C-5*
6b		*3.88*		$J_{5,6b}$ = *2.2*	*C-4, C-5*
2'	*126.2*	*7.40*		$J_{2',3'}$ = *3.3*	*C-1 (weak), C-3', C-3a', C-7' (weak), C-7a'*
3'	*103.2*	*6.49*			*C-2', C-3a', C-4' (weak), C-7a' (weak)*
3a'	*130.3*				
4'	*121.3*	*7.52*		$J_{4',5'}$ = *8.0,*	*C-3', C-6', C-7a'*
5'	*120.7*	*7.05*		$J_{5',6'}$ = *7.4,* $J_{3,5}$ = *1.1,*	*C-3a', C-7'*
6'	*122.4*	*7.15*		$J_{6',7'}$ = *8.0,* $J_{4',6'}$ = *1.0*	*C-4', C-7a'*
7'	*111.2*	*7.54*			*C-3a', C-5'*
7a'	*137.8*				

[1]Characteristic ^{1}H NMR signals of iglu#2. ^{1}H (600 MHz), ^{13}C (151 MHz), and HMBC NMR spectroscopic data for iglu #1 in methanol-d_4. Chemical shifts were referenced to ($CD_2\underline{H}OD$) = 3.31 ppm and ($\underline{C}D_2HOD$) = 49.05 ppm.