

**Figure 1-Figure supplement 1: NMR data of Ado**

The chemical shifts of  $^1\text{H}$  and  $^{13}\text{C}$  found in Ado. Blanks are heteroatoms in the main chain. Selected COSY and HMBC correlations are included to demonstrate linkage.

Atom	$\delta^{13}\text{C}$	$\delta^1\text{H}$	HMBC	COSY
1				
2	152.4	1H 8.13 (s)	4, 6	
3				
4	149.1	-		
5	119.1	-		
6	156.1	-		
7				
8	139.7	1H 8.34 (s)	4, 5	
9				
1'	90.8	1H 5.95 (d, $J=3.9\text{Hz}$ )	4, 8, 2'	2'
2'	81.1	1H 4.52 (dd, $J=6.3, 3.9\text{ Hz}$ )		1', 3'
3'	77.1	1H 4.22 (dd $J=6.3, 3.8\text{ Hz}$ )		2', 4'
4'	87.7	1H 3.93 (q $J=3.8\text{ Hz}$ )		3', 5'
5'	62.4	1H 3.61 (m), 1H 3.50 (m)		5', 4'