

## Supplementary data

Chemical shifts ( $\delta$ ) and coupling constants (J) in  $\text{CDCl}_3$  and  $[\text{}^2\text{H}_6]\text{DMSO}$  of relevant protons in compounds **1-4**

Compound	Proton	$\text{CDCl}_3$		$[\text{}^2\text{H}_6]\text{DMSO}$	
		$\delta$ /ppm	J/ Hz	$\delta$ /ppm	J/ Hz
<b>1-Trans</b>	H-2	5.28	$J_{2,3}=2.0$ $J_{2,3'}=5.0$	5.21	$J_{2,3}=4.0$
	H-6	3.47	$J_{6,7}=11.6$	3.38	$J_{6,7}=11.2$
	H-9	1.24	$J_{8,9}=11.4$	1.28	$J_{8,9}=11.3$
<b>1-Cis</b>	H-2	5.23	$J_{2,3}=2.0$ $J_{2,3'}=3.7$	5.16	$J_{2,3}=4.1$
	H-6	3.74	$J_{6,7}=3.4$	3.68	$J_{6,7}=3.1$
	H-9	1.32	$J_{8,9}=11.7$	1.30	$J_{8,9}=11.5$
<b>2-Trans</b>	H-2	4.71	$J_{2,3\text{eq}}=2.6$ $J_{2,3\text{ax}}=4.5$	4.67	$J_{2,3\text{ax}}=4.5$
	H-7	3.50	$J_{7,8}=12.2$	3.38	$J_{7,8}=11.8$
	H-10	1.23	$J_{9,10}=11.6$	1.25	$J_{9,10}=11.4$
<b>2-Cis</b>	H-2	4.65	$J_{2,3\text{eq}}=3.1$ $J_{2,3\text{ax}}=3.6$	4.63	$J_{2,3\text{ax}}=4.1$
	H-7	3.82	$J_{7,8}=3.2$	3.75	$J_{7,8}=2.9$
	H-10	1.28	$J_{9,10}=11.0$	1.26	$J_{9,10}=11.2$
<b>3</b>	H-2	5.78	$J_{2,3}=4.8$	5.77	$J_{2,3}=4.2$
<b>4</b>	H-2	5.31	$J_{2,3}=3.1$	5.38	$J_{2,3}=3.0$

Selected NOEs in compounds **1-4** (0.1 mol dm<sup>-3</sup> in CDCl<sub>3</sub> and [2H<sub>6</sub>]DMSO, *T* = 298 K)

Compound	CDCl <sub>3</sub>			[2H <sub>6</sub> ]DMSO		
	Irradiated	observed	NOE %	observed	NOE %	
<b>1-Trans</b>	H-2	H-6	6.6	H-6	10.9	
	H-6	H-2	6.3	H-2	7.6	
<b>1 Cis</b>	H-2	H-6	4.1	H-6	1.9	
	H-6	H-2	6.5	H-2	2.8	
<b>2-Trans</b>	H-2	H-7	12.1	H-7	11.2	
	H-7	H-2	8.9	H-2	6.3	
<b>2-Cis</b>	H-2	H-7	4.0	H-7	6.0	
	H-7	H-2	4.6	H-2	3.6	
<b>3</b>	H-8,8'	H-7,7'	10.3	H-7,7'	16.3	
		H-10	3.9	H-2	-2.0	
	H-7,7'	H-11,11'	5.2	H-10	5.9	
		H-8,8'	10.3	H-8,8'	18.8	
	H-2	H-2	5.2	H-2	7.7	
		H-7,7'	10.7	H-8,8'	-3.9	
		H-7,7'		H-7,7'	17.4	
		H-10	H-8,8'	5.0	H-8,8'	8.5
	<b>4</b>	H-9,9'	H-8,8'	17.3	H-7,7'	-3.4
			H-8,8'		H-8,8'	26.4
H-8,8'		H-2		H-2	-1.1	
		H-9,9'	11.2	H-9,9'	23.6	
H-2		H-2	4.6	H-2	5.0	
	H-8,8'	6.3	H-8,8'	6.9		
		H-9,9'	-1.8			