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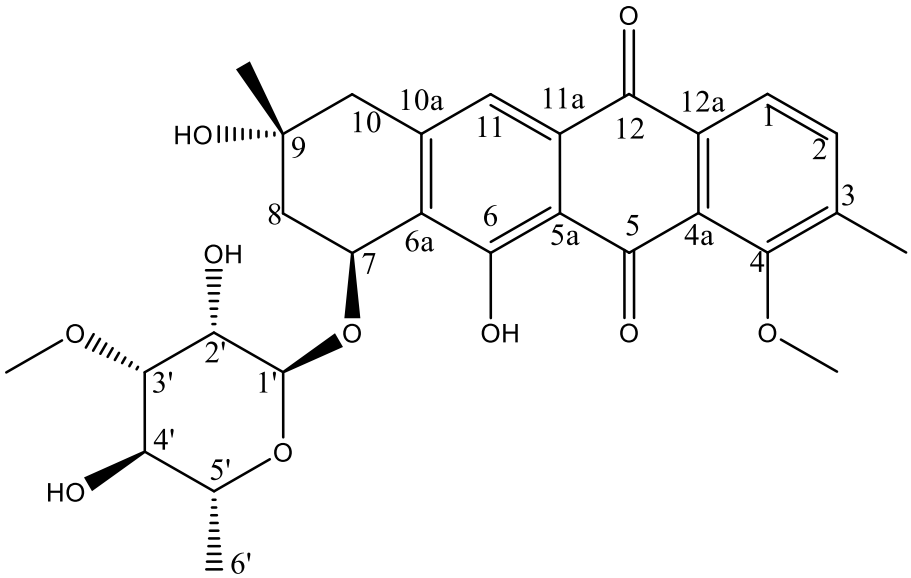

Structure of compound **1**

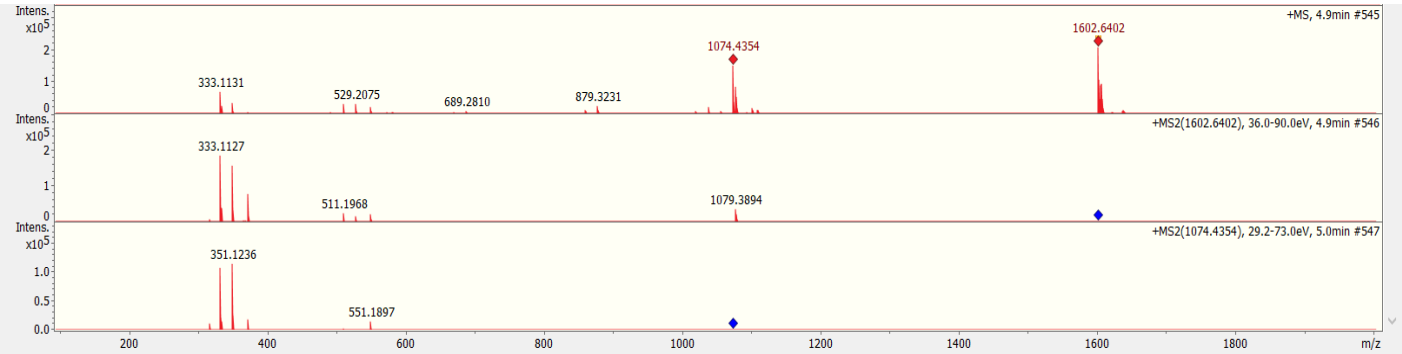

Figure S1: Mass spectrum of compound **1**

$[M+H]^+$ appears at m/z 529.2075 with formula $C_{28}H_{33}O_{10}$ (error: -1.2 ppm msigma: 7.2)

The $[aglycone + H]^+$ appears at m/z 351.1236

The m/z appearing at 551.1897 corresponds to $[M+Na]^+$

The m/z appearing at 1074.4354 corresponds to $[2M+NH_4]^+$

The m/z appearing at 1079.3894 corresponds to $[2M+Na]^+$

The m/z appearing at 1602.6402 corresponds to $[3M+Na]^+$

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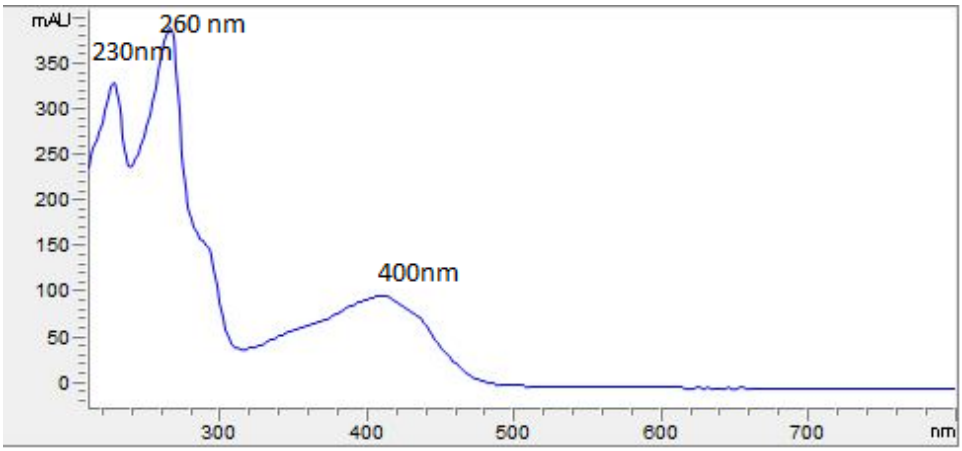

Figure S2: Annotated UV spectrum of compound **1**

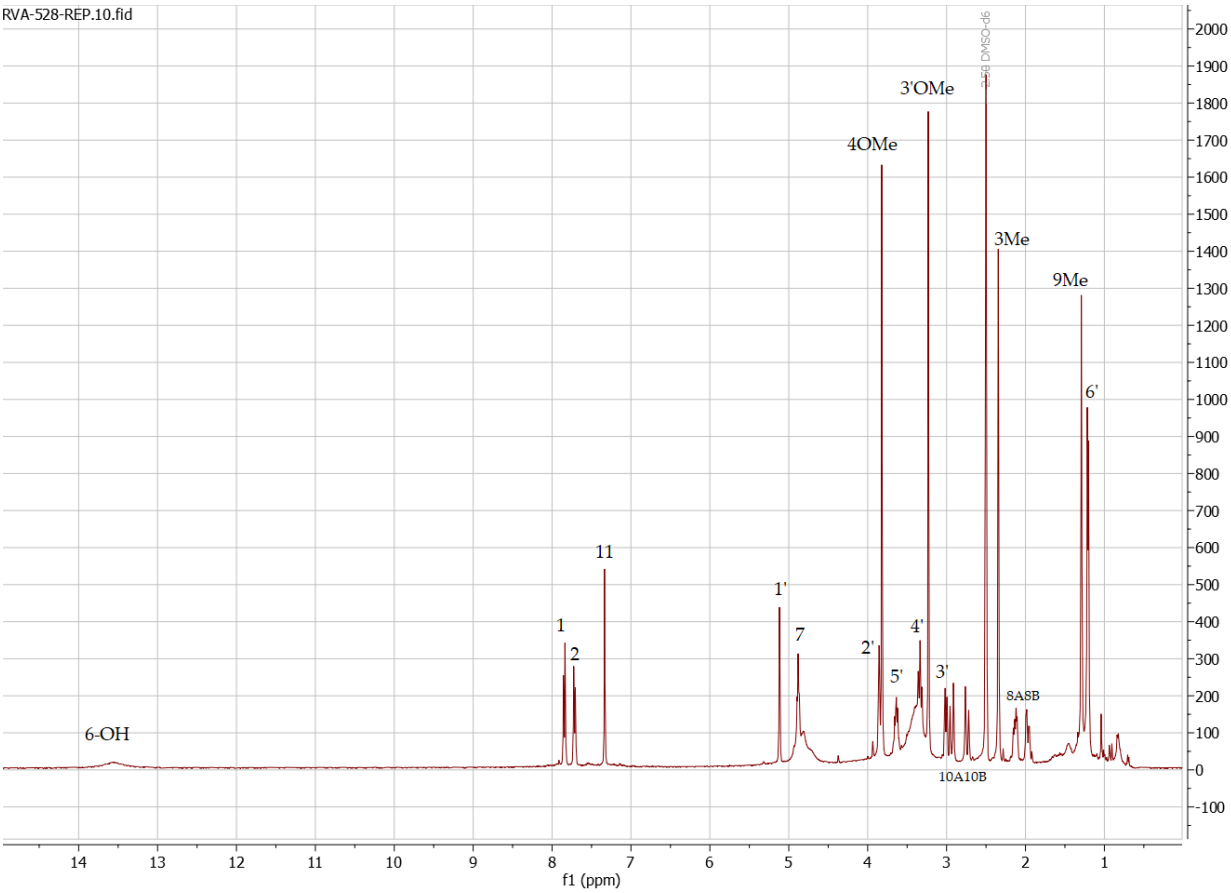

Figure S3: Annotated 1H NMR spectrum of compound **1** in DMSO-d6 at 400MHz

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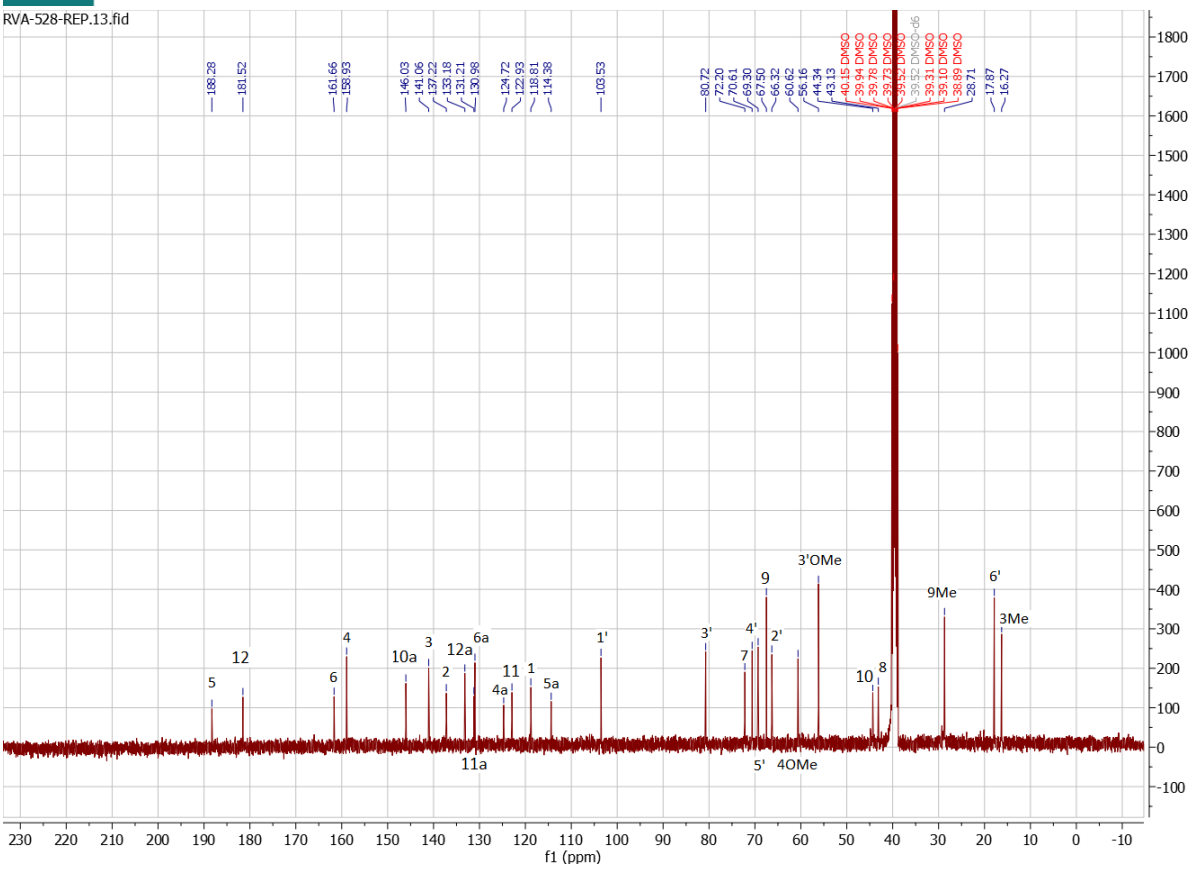

Figure S4: Annotated 13C NMR spectrum of compound **1** in DMSO-d6 at 400MHz

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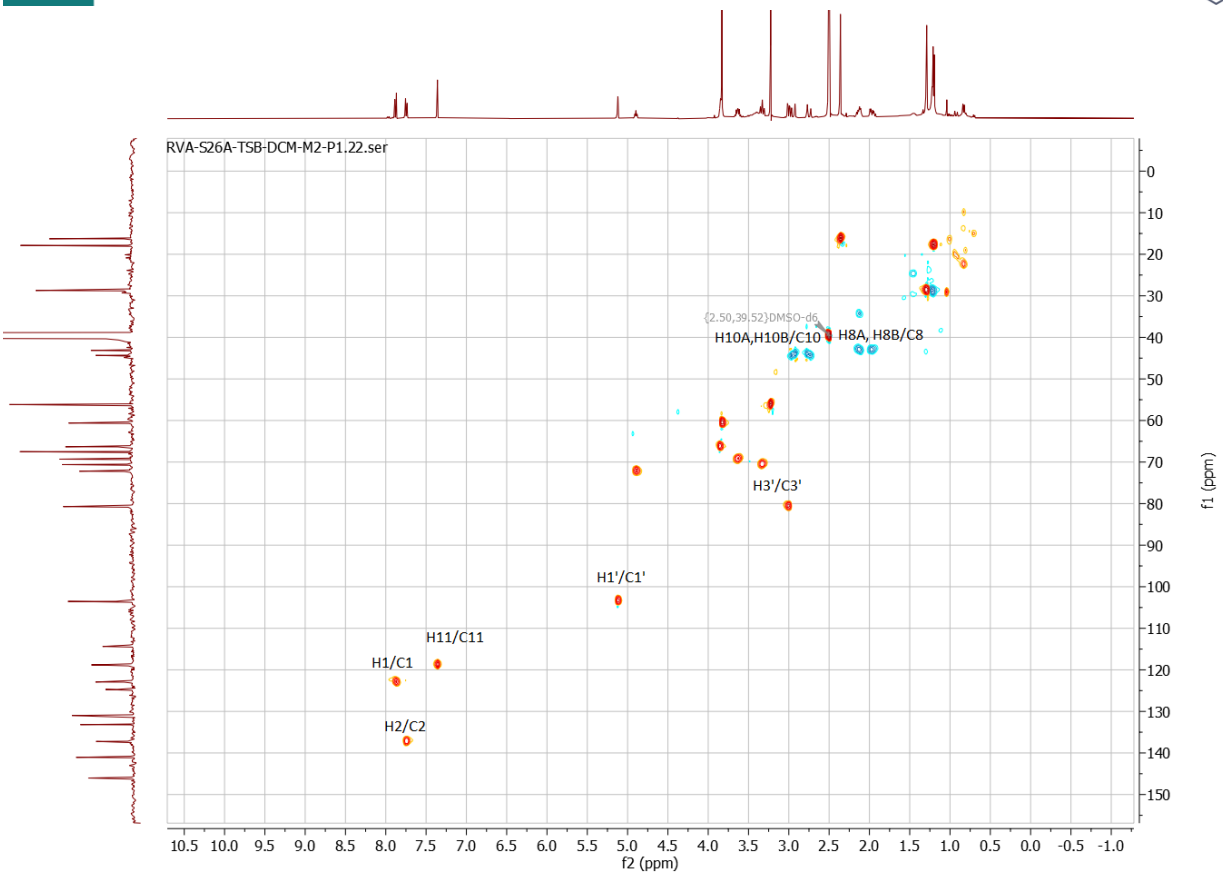

Figure S5: HSQC spectrum of compound **1** in DMSO-d6 at 400 MHz with Key correlations annotated

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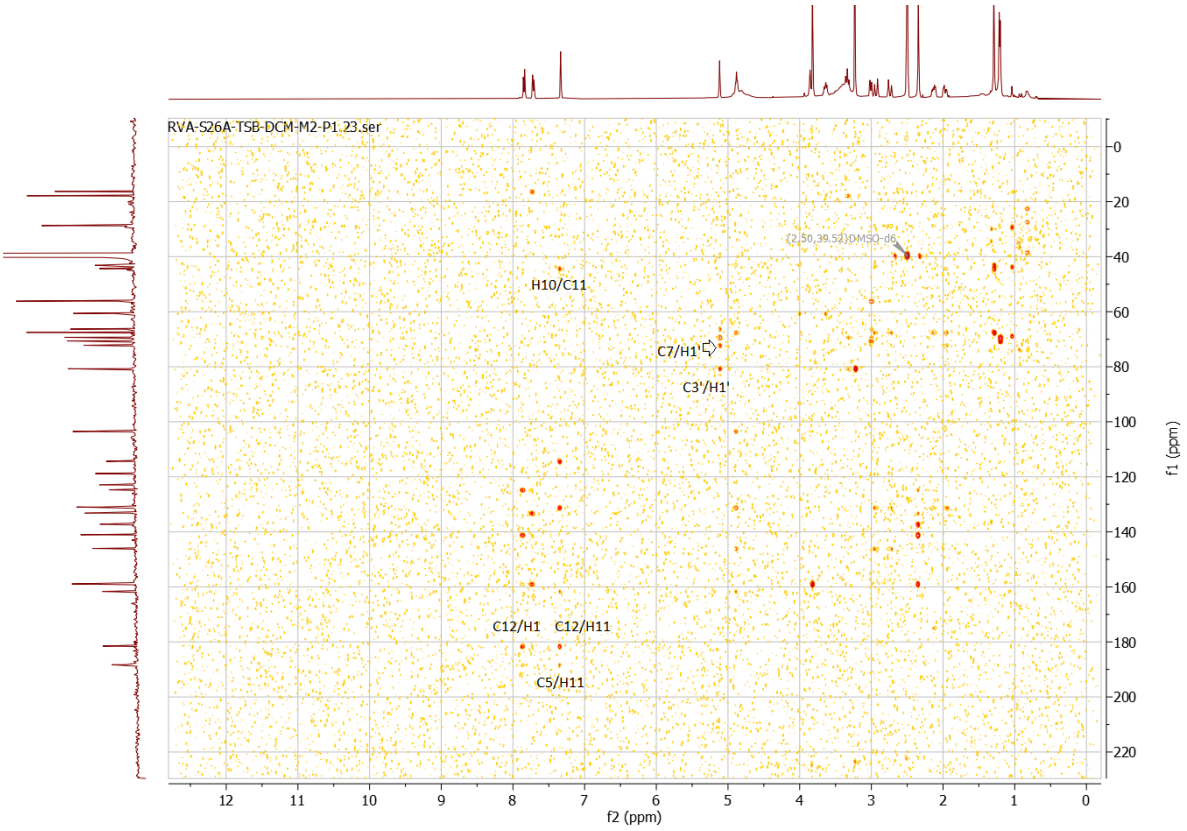

Figure S6: HMBC spectrum of compound **1** in DMSO at 400 MHz with key correlations annotated.

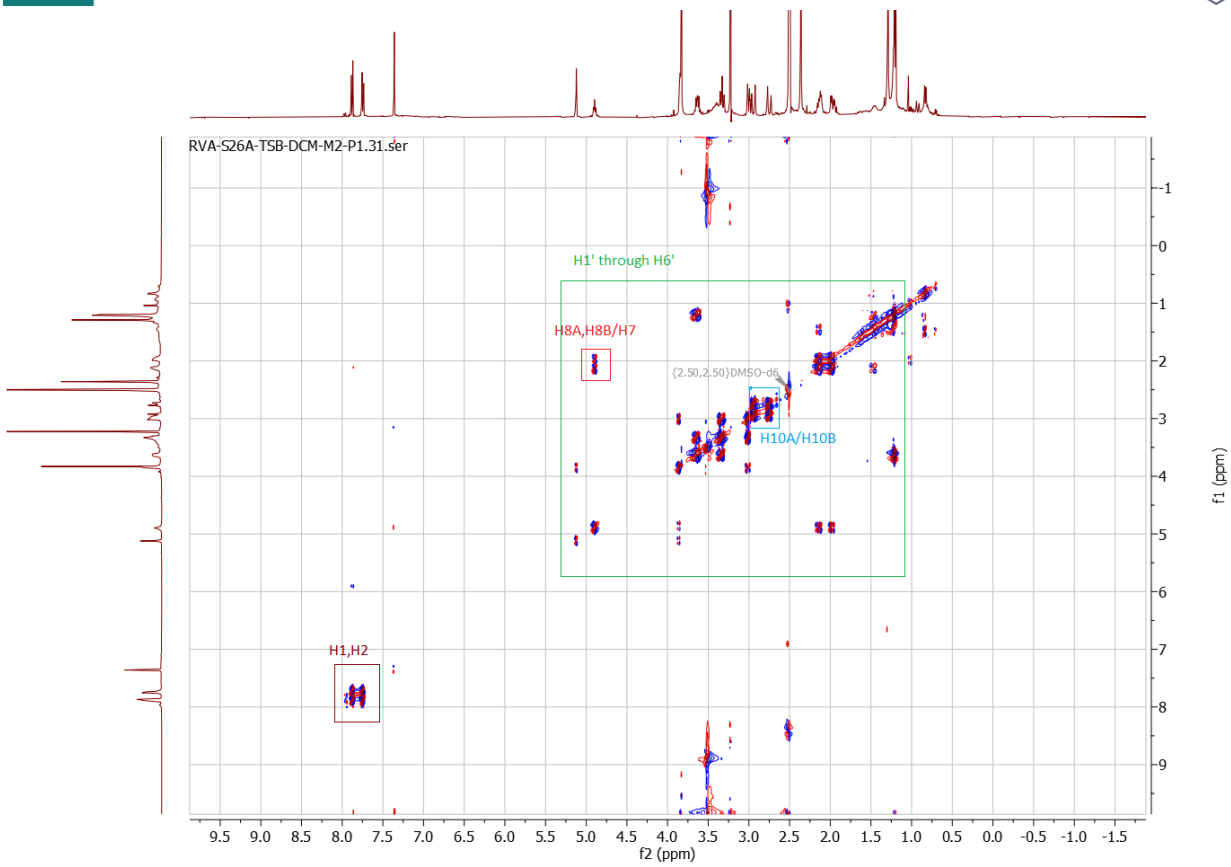

Figure S7: DQF COSY of compound **1** in DMSO at 400 MHz with key correlations annotated

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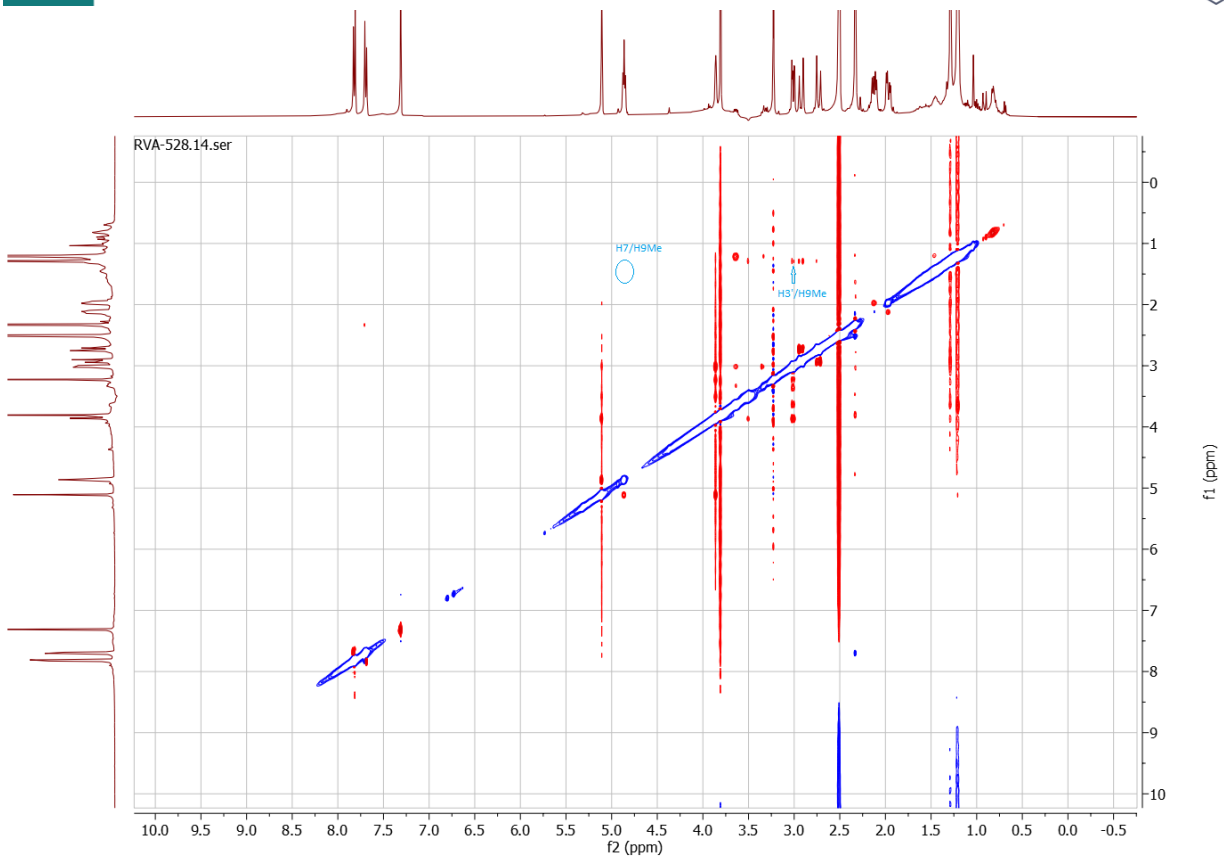

Figure S8: ROESY spectrum of compound **1** in DMSO-d6 at 400 MHz with the correlation between H9Me and H3' highlighted and the lack of correlation between H7 and H9Me at the same level also highlighted.

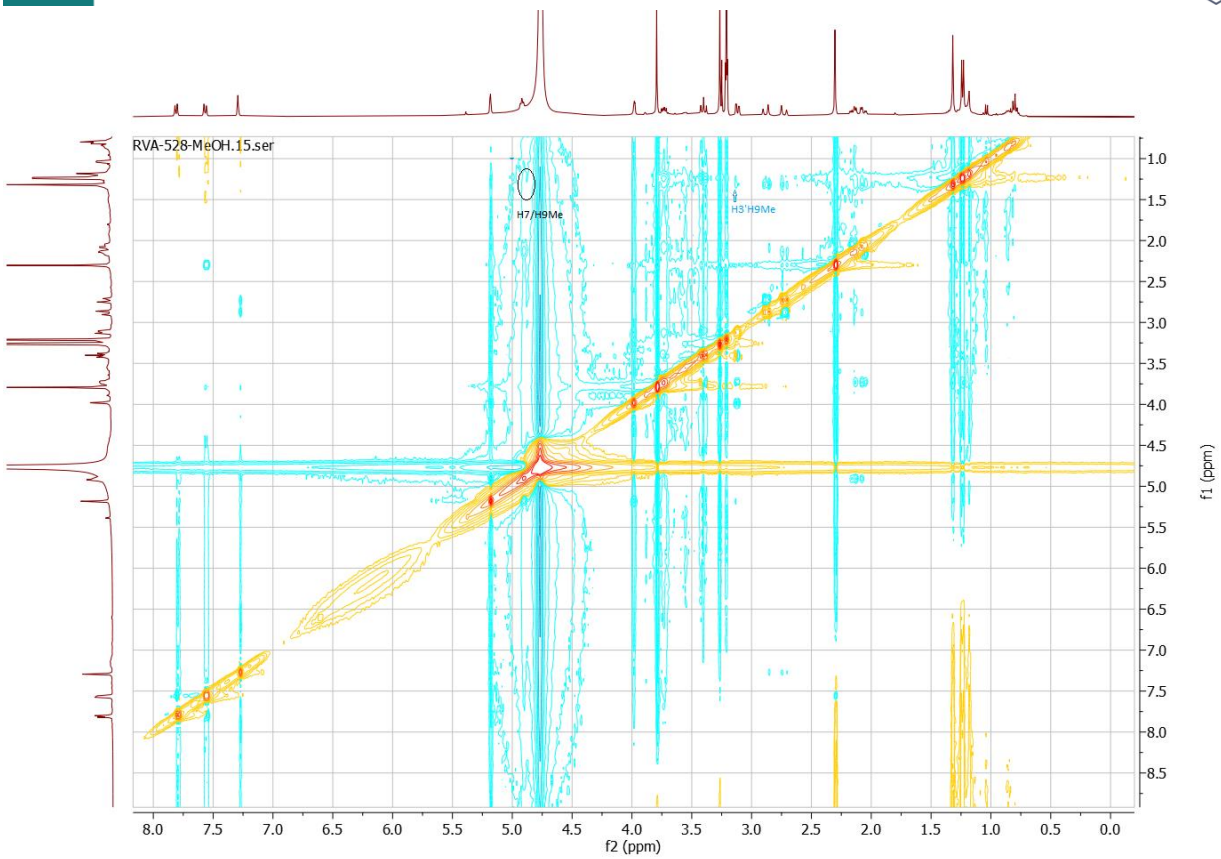

Figure S9: ROESY spectrum of compound **1** in CD_3OD at 400 MHz with the correlation between H9Me and H3' highlighted and the lack of correlation between H7 and H9Me at the same level also highlighted

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Diastereomer 7S9R	Diastereomer 7R9R	Diastereomer 7R9S	Diastereomer 7S9S
Distances between **H9Me** and			
H7: 3.9, 4.4, 5.2 GM = 4.5	**H7**: 4.8, 5.5, 4.5 GM = 4.9	**H7**: 4.5, 5.5,5.8 GM = 5.2	**H7**: 4.9, 4.8, 5.6 GM = 5.1
H3': 3.3, 3.2, 4.5 GM = 3.6	**H3'**: 6.4, 5.3, 5.7 GM = 5.8	**H3'**:3.6, 5.3, 4.9 GM = 4.5	**H3'**: 5.3, 5.9, 6.5 GM = 5.9

Table S1: comparison of distances (in Å) and their geometric means between H7, H3' and H9Me measured for all 4 diastereomers of **1**

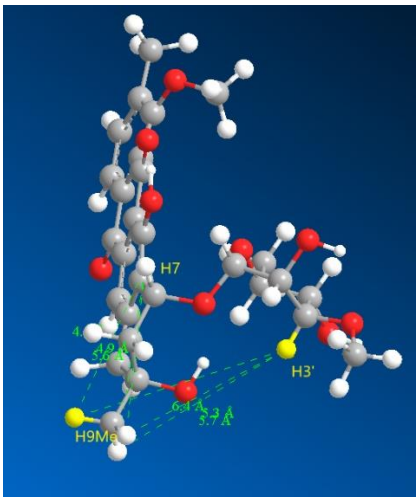

Figure S10: the distances between H7, H3' and H9Me shown where the configuration of position 7 is R and that of position of 9 is R

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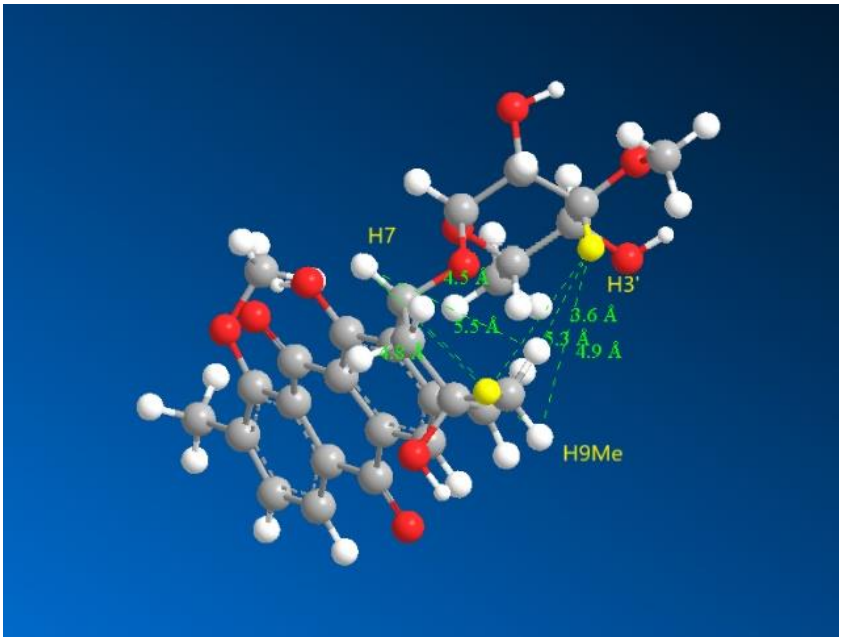
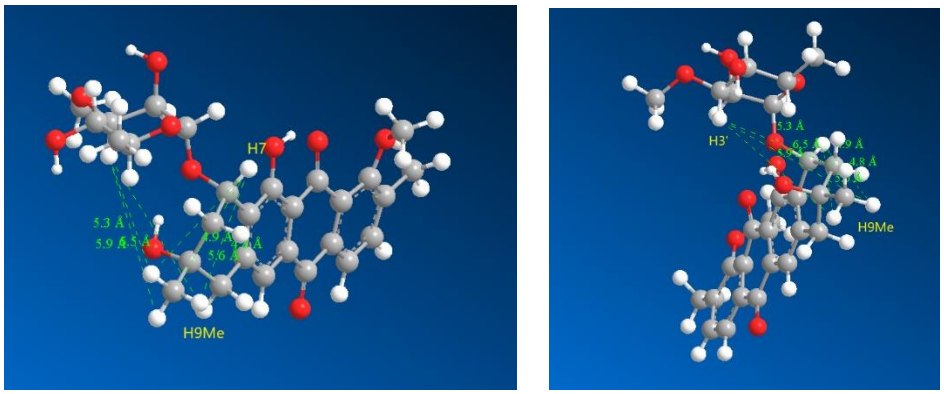
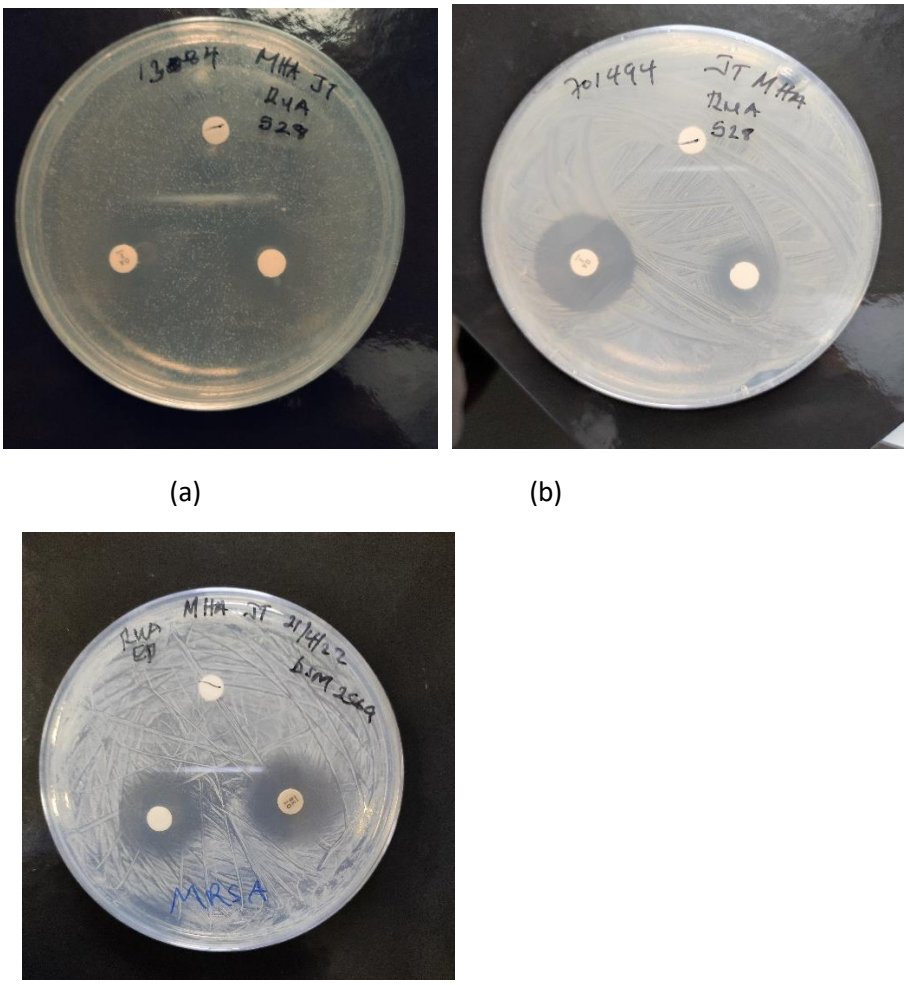


Figure S11: the distances between H7, H3' and H9Me shown where the configuration of position 7 is R and that of position of 9 is S



(a) **(b)**

Figure S12: the distances between **(a)** H7 and H9Me and **(b)** H3' and H9Me shown where the configuration of position 7 is S and that of position of 9 is S



(a) (b)

(c)

Figure S13: Disc diffusion assay results of compound **1** against (a) *Enterococcus pseudoavium* NCIMB 13084 (b) *Staphylococcus aureus subsp. aureus* NCIMB 701494 (c) Methicillin resistant *Staphylococcus aureus* DSMZ 2569