

Supporting Information

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A New Alkaloid Glycoside from the Stems of *Zanthoxylum dissitum* Hemsl.

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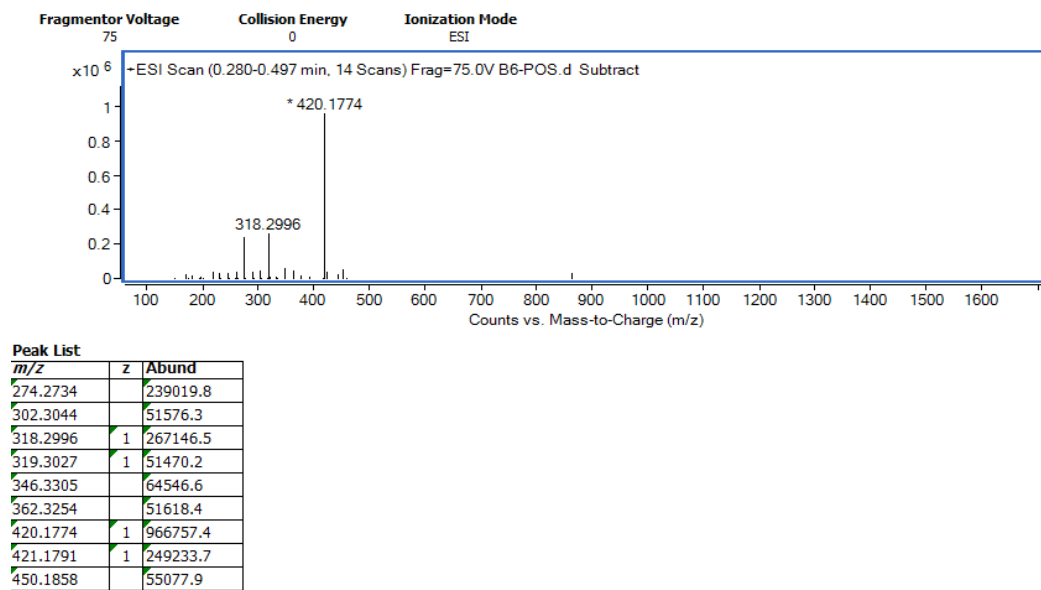


Figure S1: ESI-MS Spectrum of 1 (dissitumine)

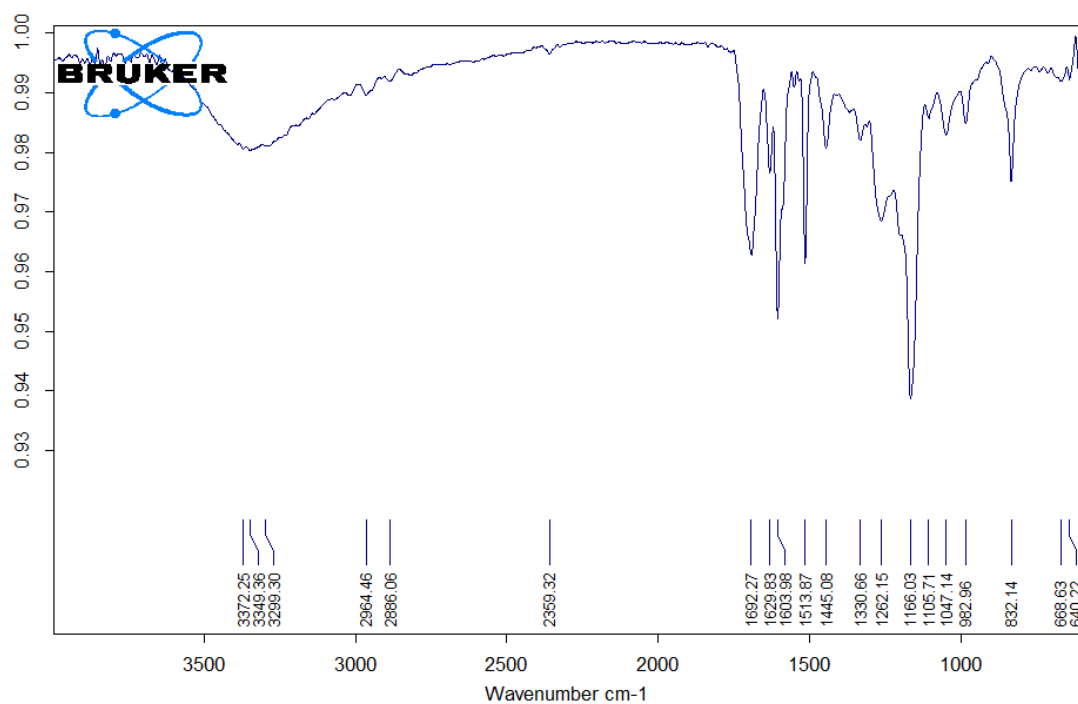


Figure S2: IR Spectrum of 1 (dissitumine)

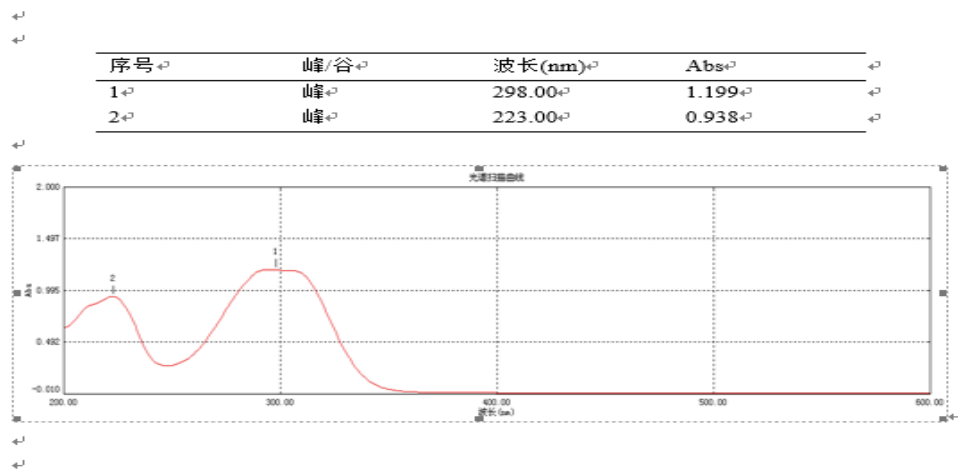


Figure S3: UV Spectrum of **1** (dissitumine)

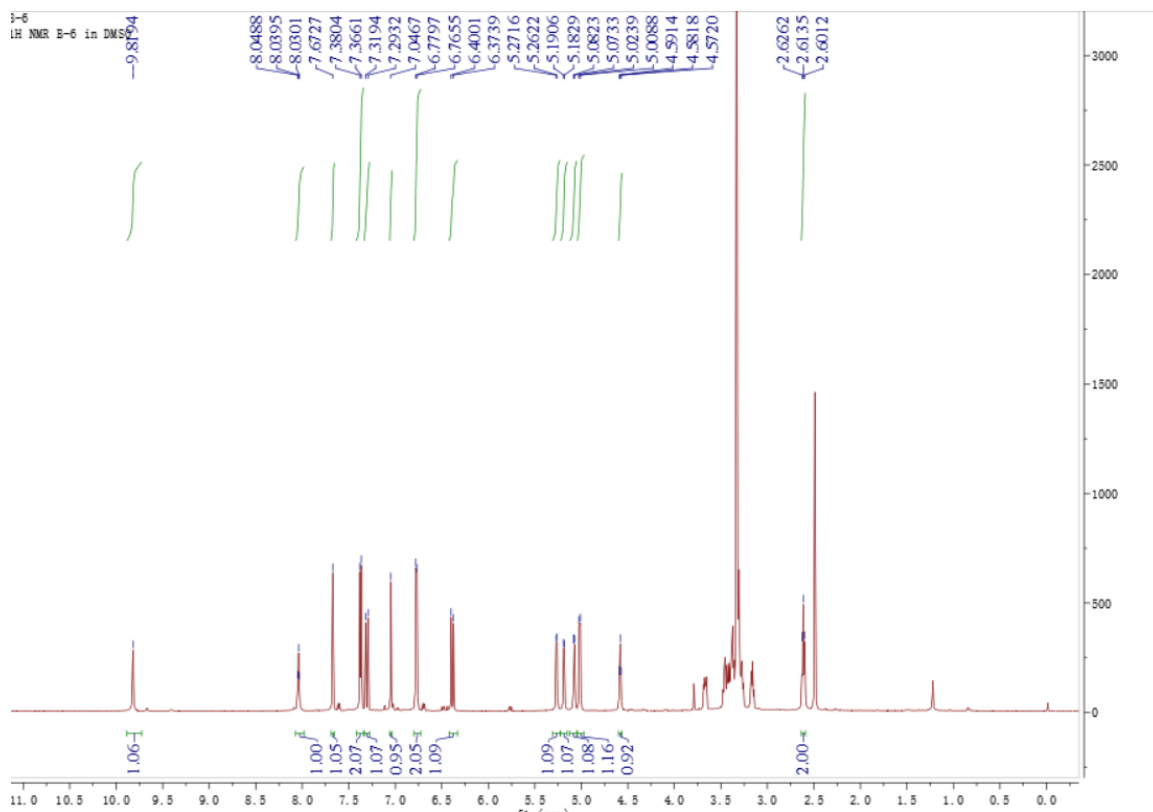


Figure S4: $^1\text{H-NMR}$ (600 MHz, HMSO-d_6) Spectrum of **1** (dissitumine)

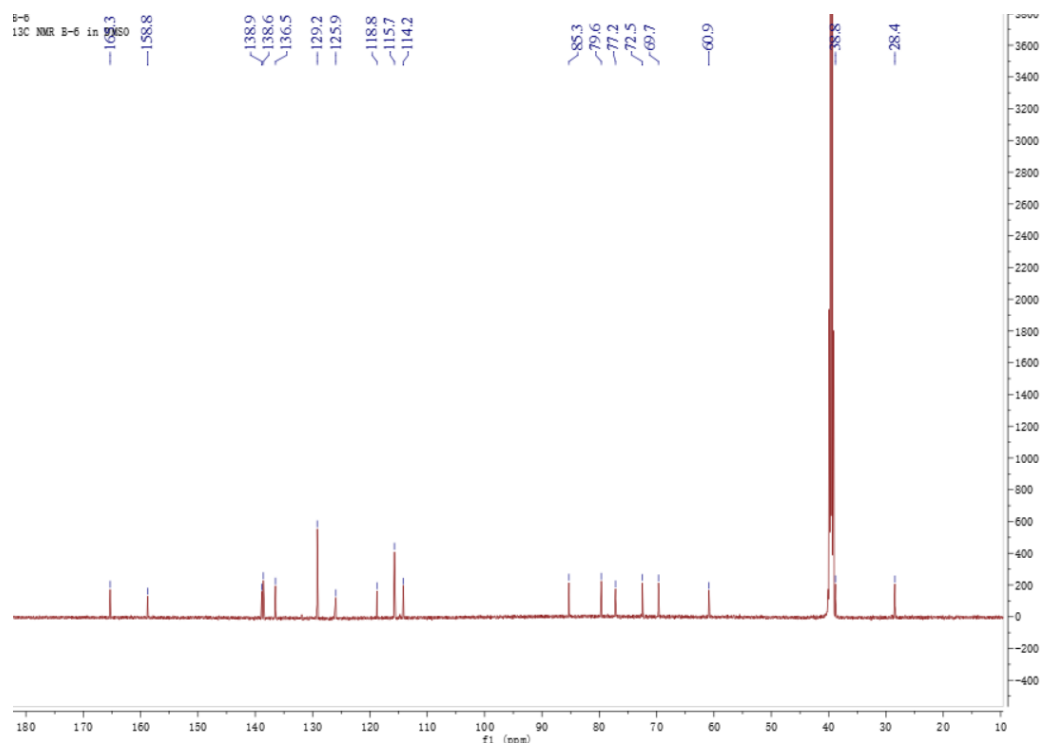


Figure S5: ¹³C-NMR (150 MHz, DMSO-d₆) Spectrum of **1** (dissitumine)

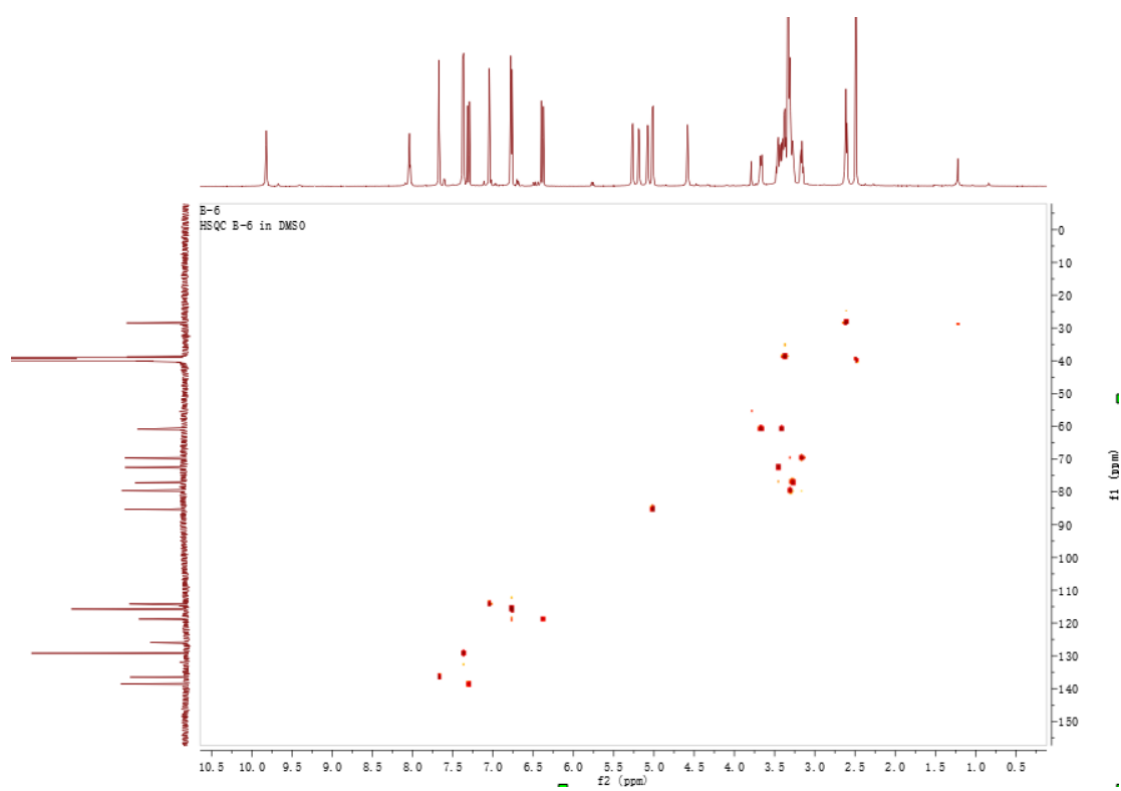


Figure S6: HSQC Spectrum of **1** (dissitumine)

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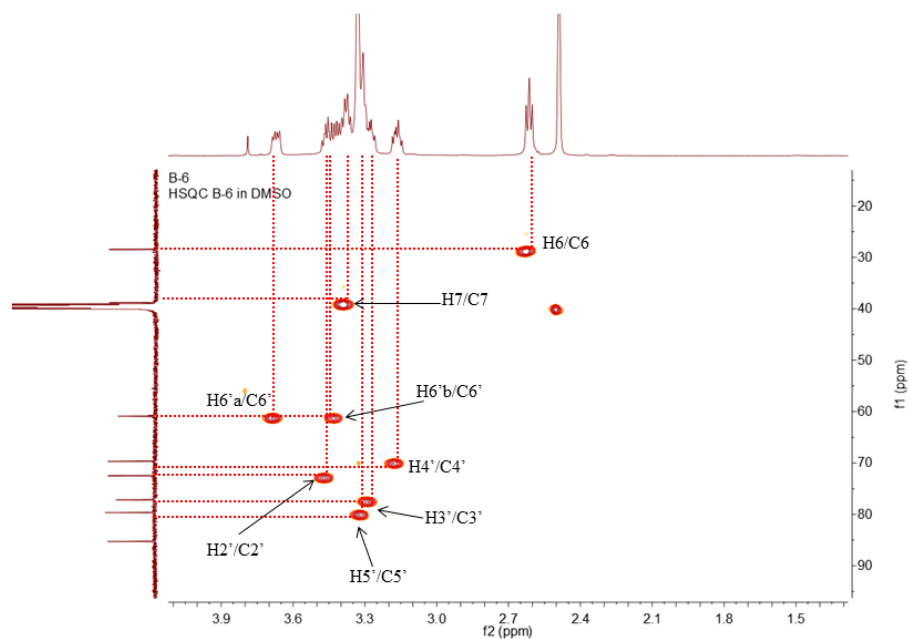


Figure S7: HSQC Spectrum of **1** (dissitimine) (From δ_H 1.5 ppm to δ_H 2.9 ppm)

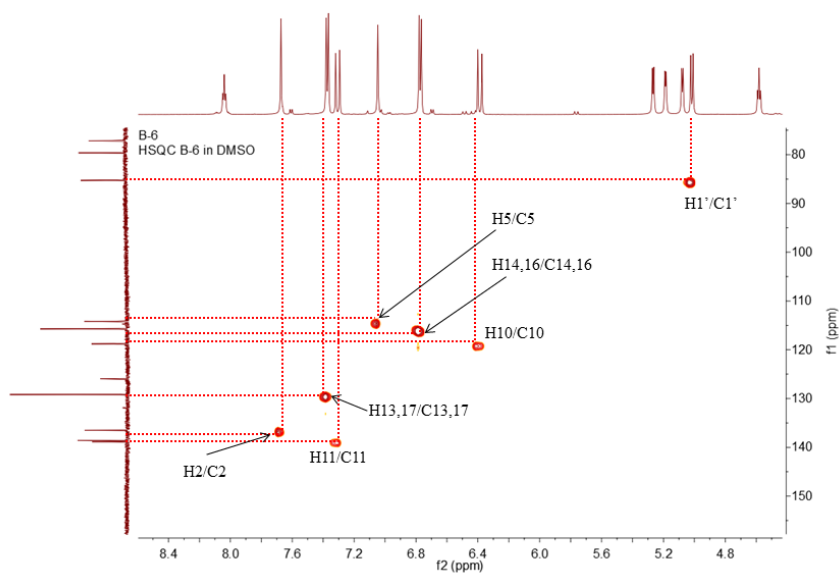


Figure S8: HSQC Spectrum of **1** (dissitimine) (From δ_H 4.8 ppm to δ_H 8.4 ppm)

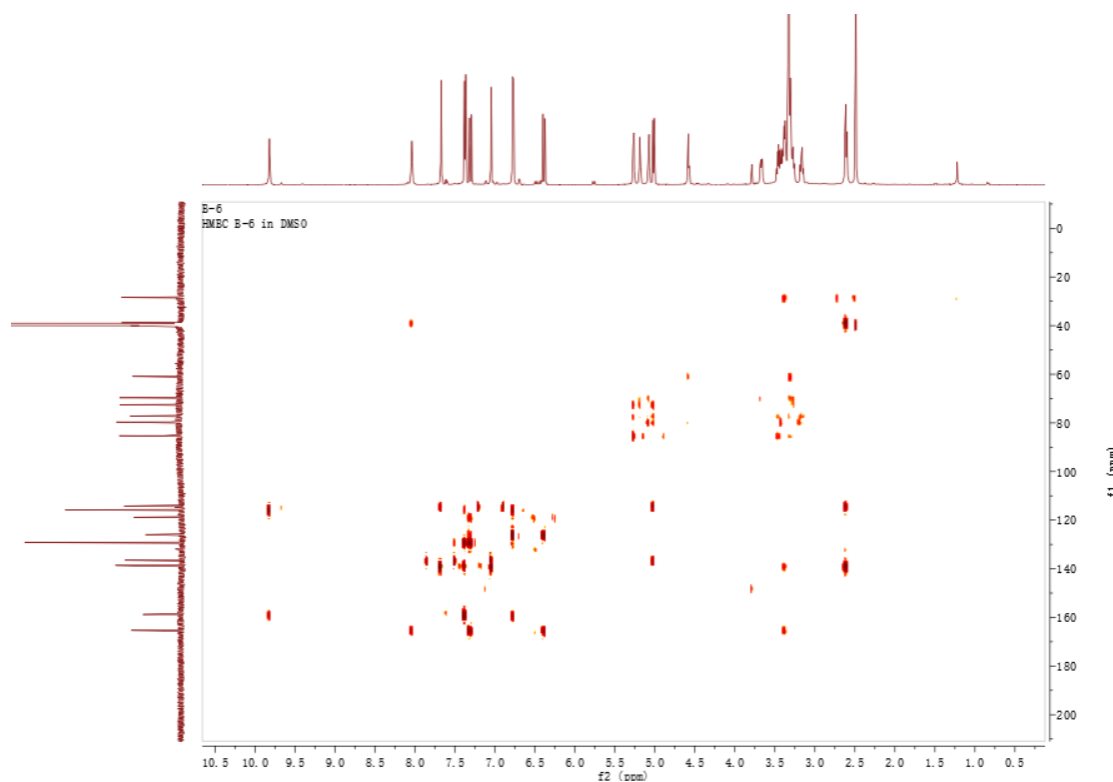


Figure S9: HMBC Spectrum of **1** (dissitumine)

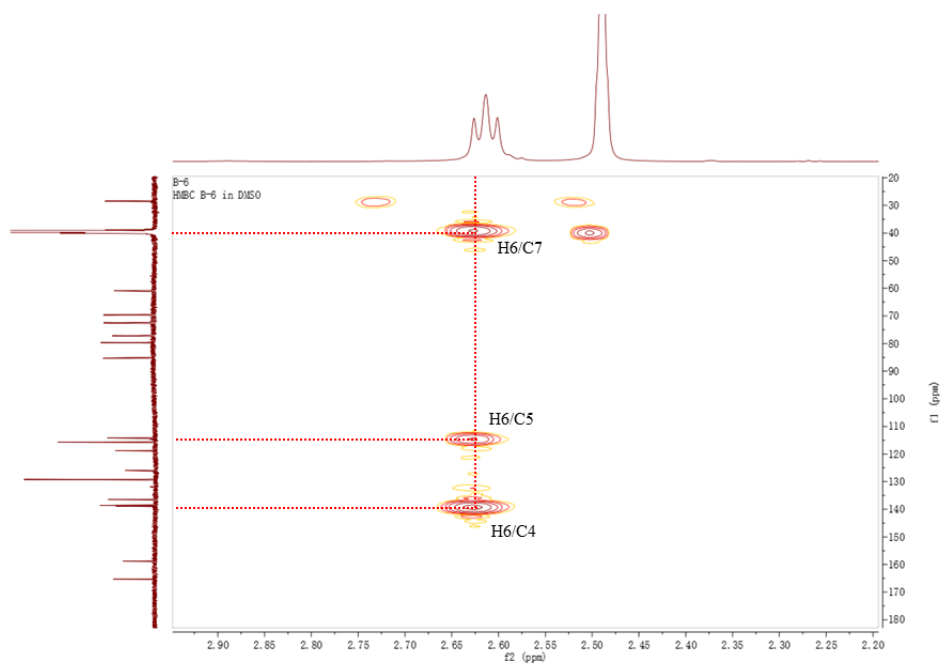


Figure S10: HMBC Spectrum of **1** (dissitumine) (From δ_H 2.25 ppm to δ_H 2.85 ppm)

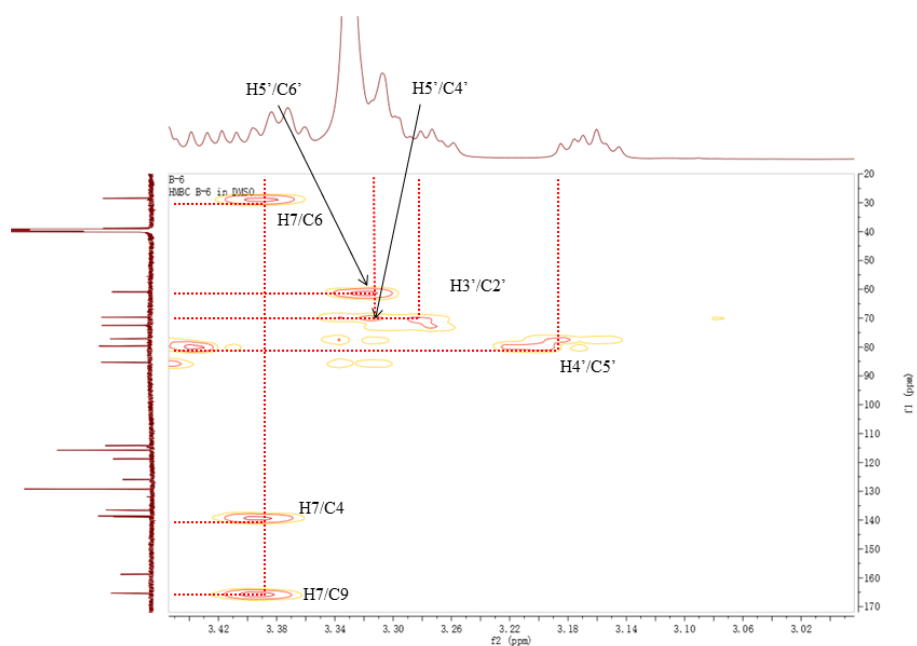


Figure S11: HMBC Spectrum of **1** (dissitimine) (From δ_H 3.10 ppm to δ_H 3.42 ppm)

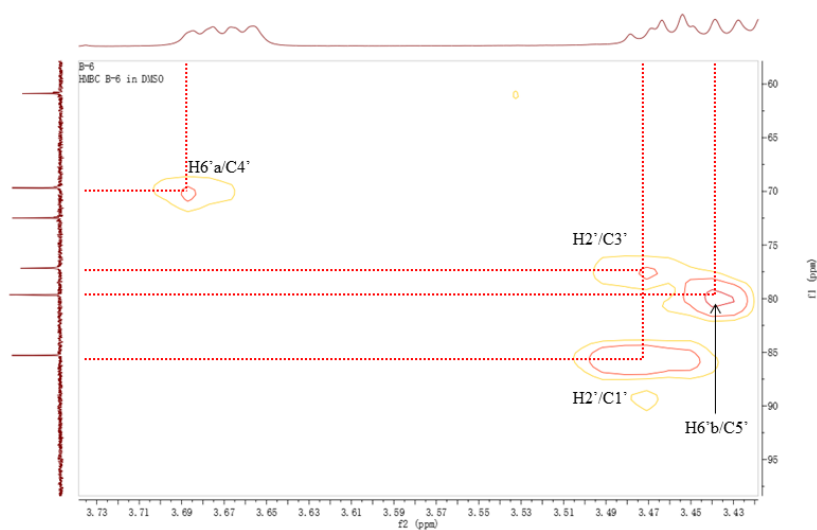


Figure S12: HMBC Spectrum of **1** (dissitimine) (From δ_H 3.42 ppm to δ_H 3.70 ppm)

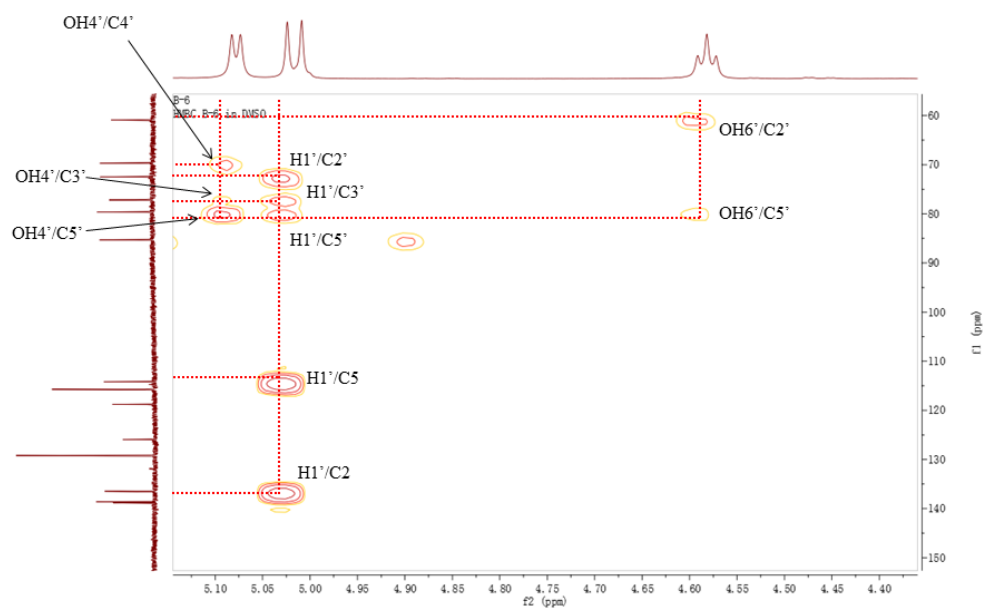


Figure S13: HMBC Spectrum of **1** (dissitimine) (From δ_H 4.45 ppm to δ_H 5.10 ppm)

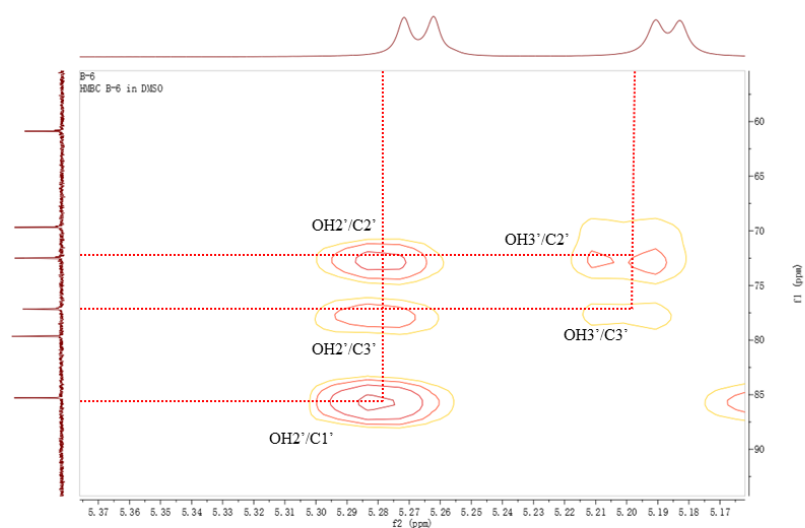


Figure S14: HMBC Spectrum of **1** (dissitimine) (From δ_H 5.17 ppm to δ_H 5.35 ppm)

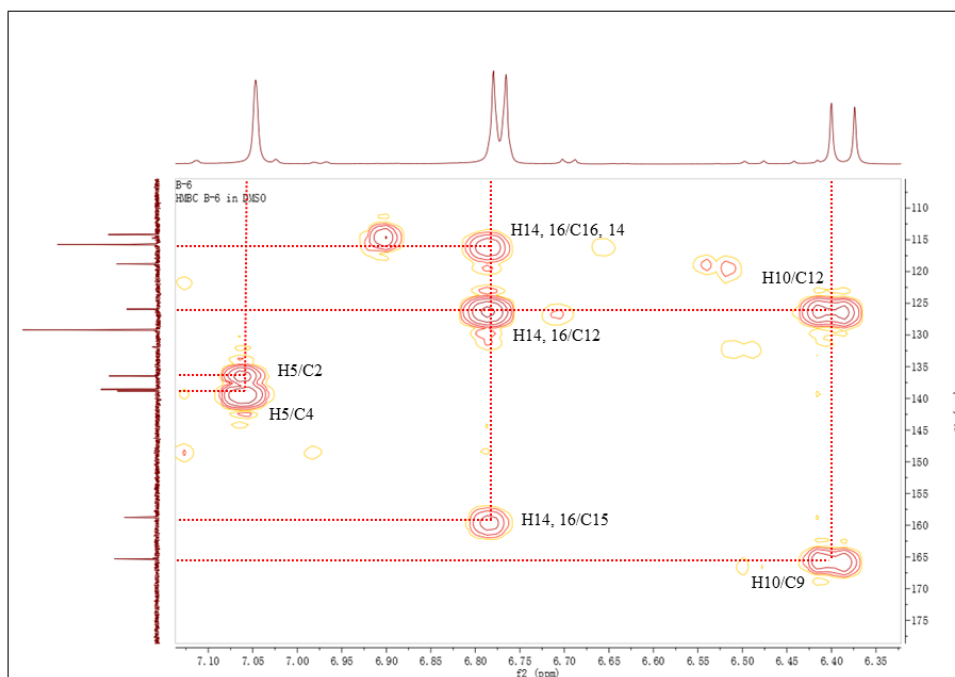


Figure S15: HMBC Spectrum of **1** (dissitimine) (From δ_H 6.35 ppm to δ_H 7.10 ppm)

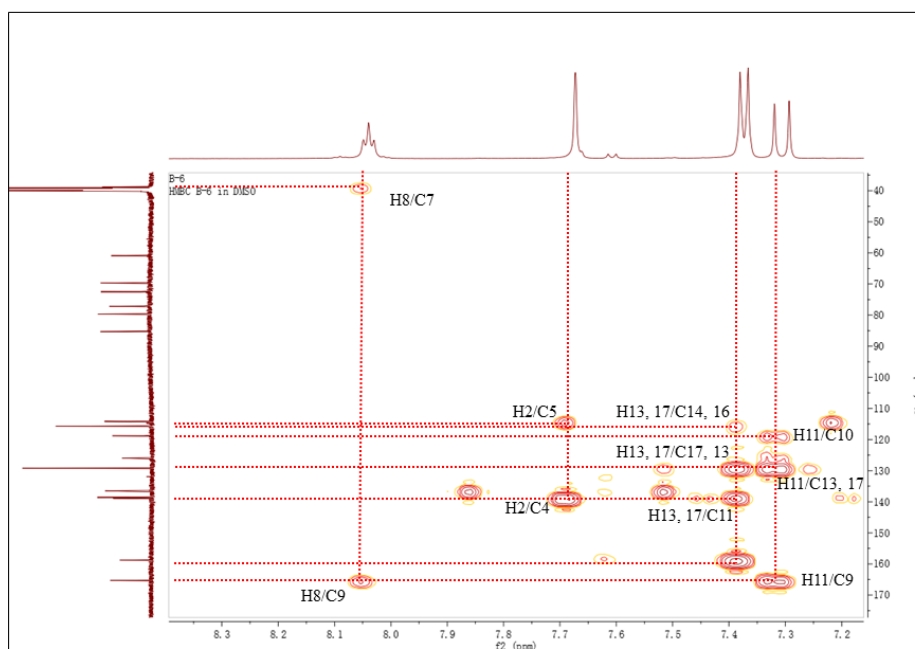


Figure S16: HMBC Spectrum of **1** (dissitimine) (From δ_H 7.20 ppm to δ_H 8.20 ppm)

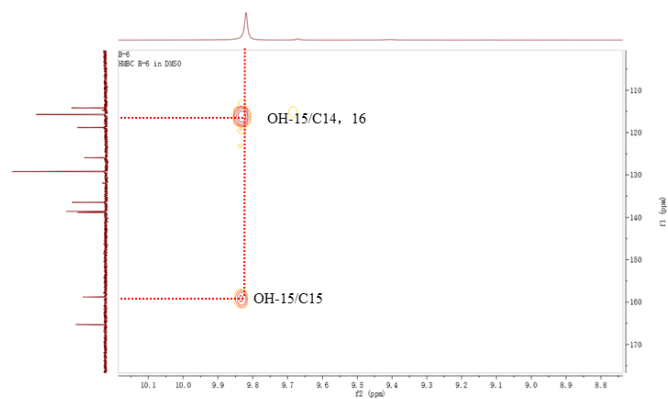


Figure S17: HMBC Spectrum of **1** (dissitimine) (From δ_{H} 8.80 ppm to δ_{H} 10.00 ppm)

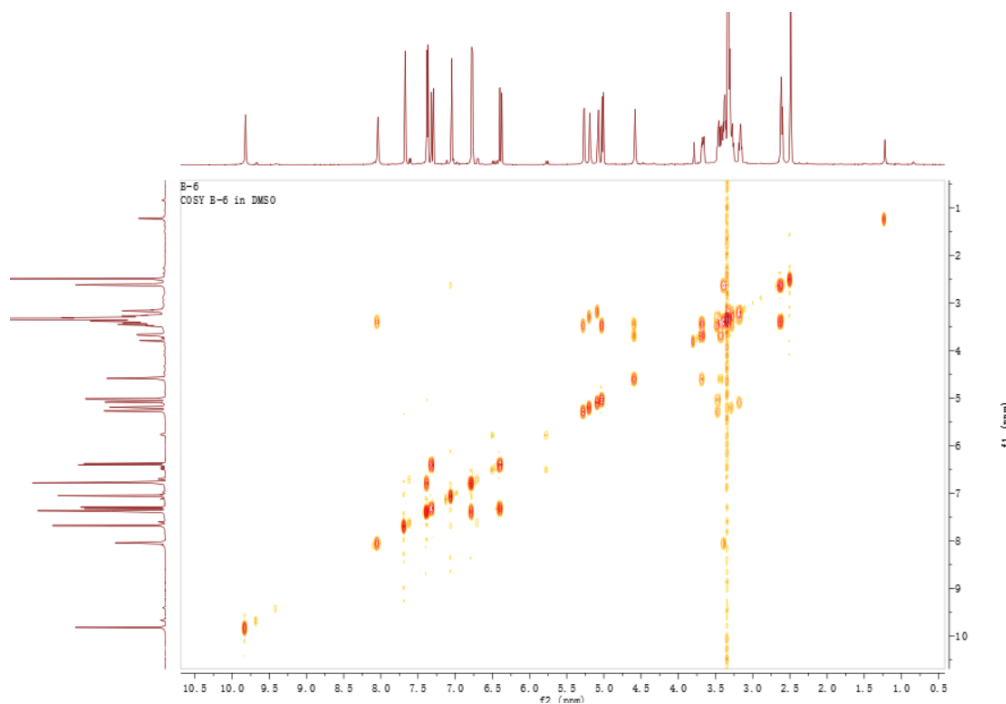


Figure S18: ^1H - ^1H COSY Spectrum of **1** (dissitimine)

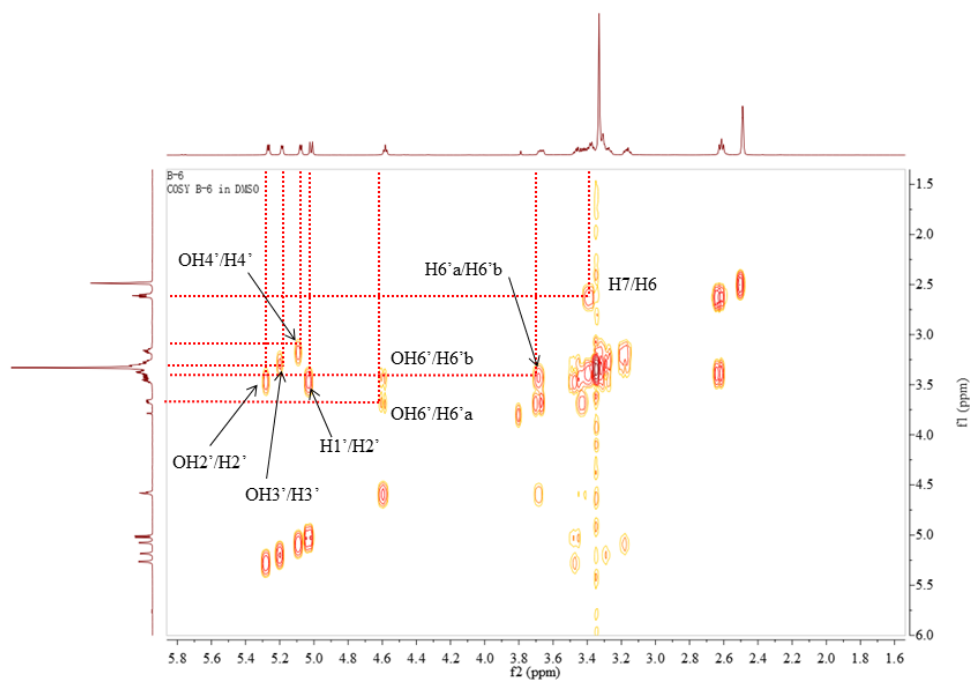


Figure S19: ^1H - ^1H COSY Spectrum of **1** (dissitimine) (From δ_{H} 1.60 ppm to δ_{H} 5.80 ppm)

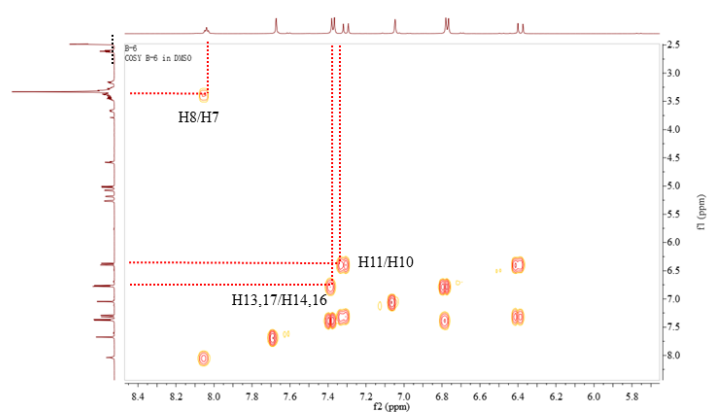
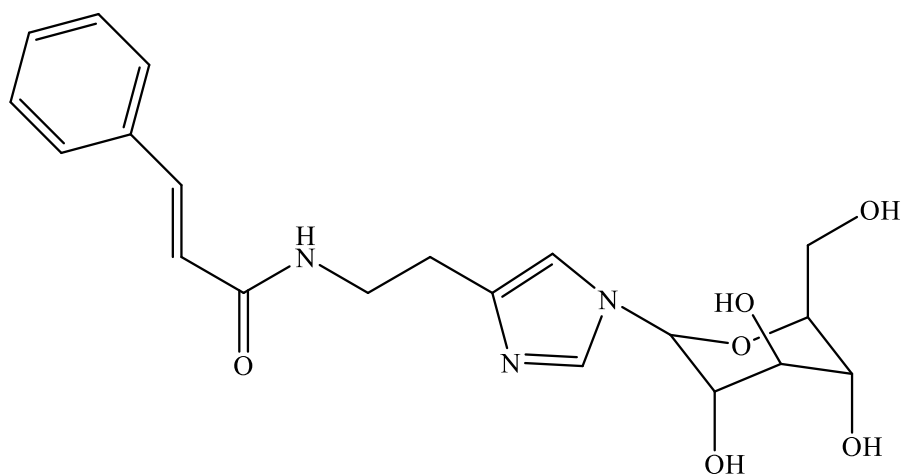


Figure S20: ^1H - ^1H COSY Spectrum of **1** (dissitimine) (From δ_{H} 5.80 ppm to δ_{H} 8.40 ppm)

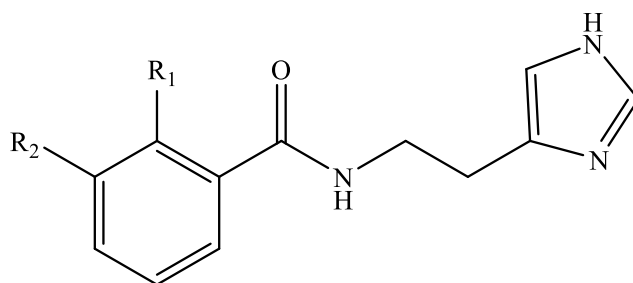
Table S1. NMR data comparison with most similar compounds

Position	Dissitumine		Casimiroedine		N-benzoylhistamine		N-(2-methoxybenzoyl)histamine		N-(2,3-dimethoxybenzoyl)histamine		Cinnamoxylhistamine	
	δ_{H}	δ_{C}	δ_{H}	δ_{C}	δ_{H}	δ_{C}	δ_{H}	δ_{C}	δ_{H}	δ_{C}	δ_{H}	δ_{C}
2	7.60	136.5	7.74	138.1	7.56	134.9	7.54	134.5	7.55	134.3	7.77	136.1
4	-	138.6	-	138.8	-	134.5	-	134.4	-	134.3	-	136.1
5	7.03	114.2	7.13	116.6	6.81	115.7	6.81	118.0	6.82	117.3	6.86	117.8
6	2.61	28.4	2.88	28.1	2.86	26.7	2.89	26.9	2.92	27.1	2.84	27.9
7	3.38	38.8	3.78	50.8	3.69	40.0	3.72	39.5	3.77	39.2	3.55	40.6
8	8.04	-	-	-	7.45	-	8.20	-	8.23	-	Not mentioned	-
9	-	163.5	-	168.8	-	167.8	-	165.7	-	165.5	-	168.6
10	6.39	118.8	6.96	118.6	-	-	-	-	-	-	6.58	121.9
11	7.30	138.9	7.44	143.1	-	-	-	-	-	-	7.51	141.7
12	-	125.9	-	136.5	-	136.4	-	121.3	-	126.7	-	136.3
13	7.37	129.2	7.62	129.0	7.77	127.0	-	157.6	-	152.6	7.53	130.0

14	6.78	115.7	7.40	129.8	7.37	128.5	6.91	111.4	-	147.5	7.36	128.8
15	-	158.8	7.38	130.6	7.45	131.4	7.41	132.9	7.00	115.4	7.36	130.8
16	6.78	115.7	7.40	129.8	7.37	128.5	7.02	121.2	7.10	124.3	7.36	128.8
17	7.37	129.2	7.62	129.0	7.77	127.0	8.13	132.0	7.62	122.6	7.53	130.0
1'	5.03	85.3	5.06	87.2	-	-	-	-	-	-	-	-
2'	3.46	72.5	3.52	74.3	-	-	-	-	-	-	-	-
3'	3.28	77.2	3.42	78.4	-	-	-	-	-	-	-	-
4'	3.16	69.3	3.39	70.8	-	-	-	-	-	-	-	-
5'	3.32	79.6	3.43	80.7	-	-	-	-	-	-	-	-
6'	3.68, 3.42	60.9	3.65	62.2	-	-	-	-	-	-	-	-



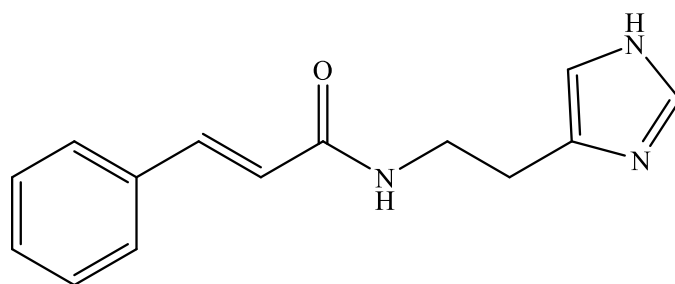
Casimiroedine



N-benzoylhistamine R₁=R₂=H

N-(2-methoxybenzoyl)histamine R₁=OMe; R₂=H

N-(2,3-dimethoxybenzoyl)histamine R₁=R₂=OMe



Cinnamoylhistamine

Figure S21: Chemical structures of the compounds in Table S1