

Supporting Information

1,6-Conjugated Addition Mediated [2+1] Annulation: Approach to Spiro[2.5]octa-4,7-dien-6-one

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Crystal structure of 4aa

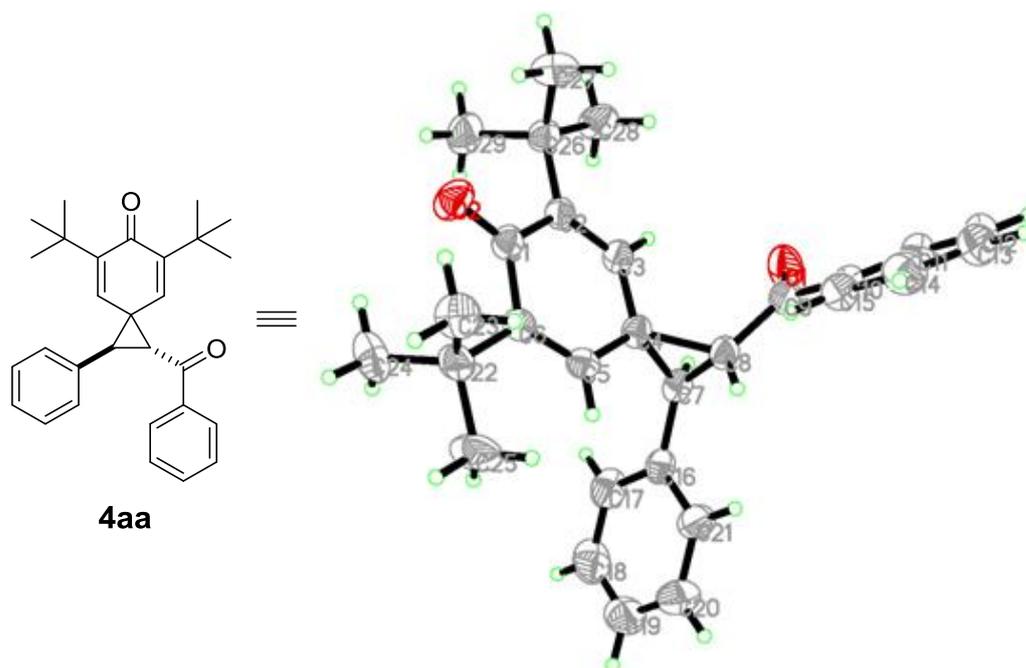


Figure S1. ORTEP plot of the crystal structure of 4aa (at 30% probability level).

X-ray crystallographic data of 4aa

CCDC number	1412107
Empirical formula	C ₂₉ H ₃₂ O ₂
Formula weight	412.55
Temperature	296 K
Wavelength	0.71073 Å
Space group	P2(1)/c
Unit cell dimensions	a=13.417(2) Å =90° b=19.553(3) Å =108.595(3)° c=9.7821(16) Å =90°
Volume	2432.2(7) Å ³
Z	4
Density (calculated)	1.127 Mg/m ³
F(000)	888.0
Completeness to theta = 25.010 °	99.8%
Absorption correction	MULTI-SCAN
Max. and min. transmission	0.985 and 0.981
R indices (all data)	R= 0.0467(2662) wR2(reflections)= 0.1470(4280)

Crystal structure of 4ma

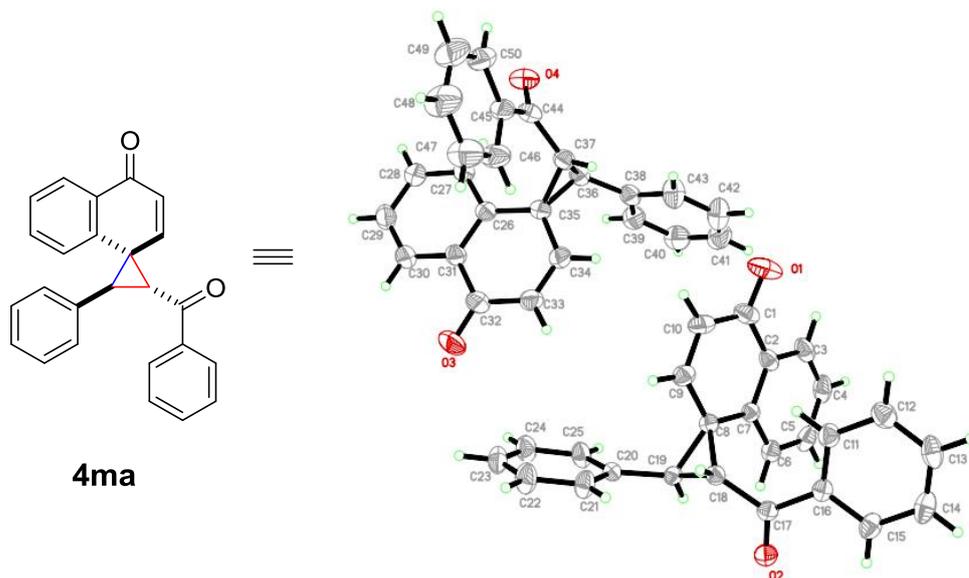


Figure S2. ORTEP plot of the crystal structure of 4ma (at 30% probability level).

X-ray crystallographic data of 4ma

CCDC number	1427612
Empirical formula	C ₂₅ H ₁₈ O ₂
Formula weight	350.39
Temperature	296 K
Wavelength	0.71073 Å
Space group	C2/c
Unit cell dimensions	a= 43.875(12)Å =90° b= 8.776(2)Å = 98.921(5)° c= 19.789(5)Å =90°
Volume	7527(3) Å ³
Z	16
Density (calculated)	1.237 Mg/m ³
F(000)	2944.0
Completeness to theta = 25.010 °	99.5%
Absorption correction	MULTI-SCAN
Max. and min. transmission	0.983 and 0.979
R indices (all data)	R= 0.0778(3730) wR2= 0.1963(6616)

¹H and ¹³C-NMR Spectra

