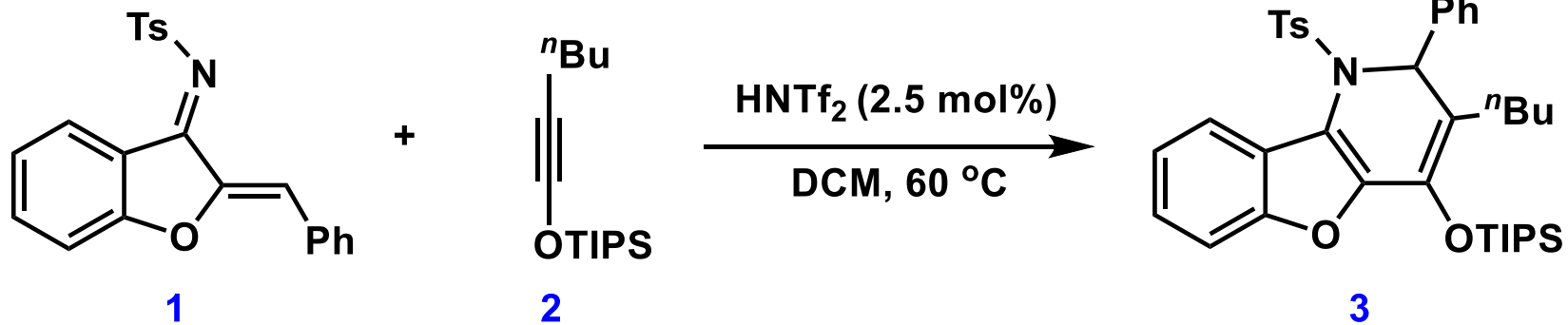
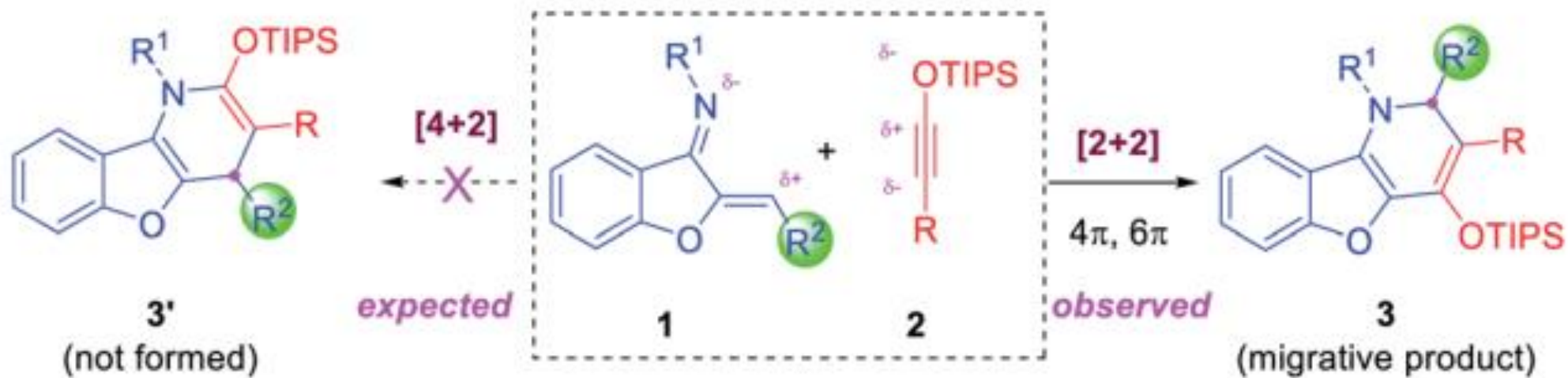
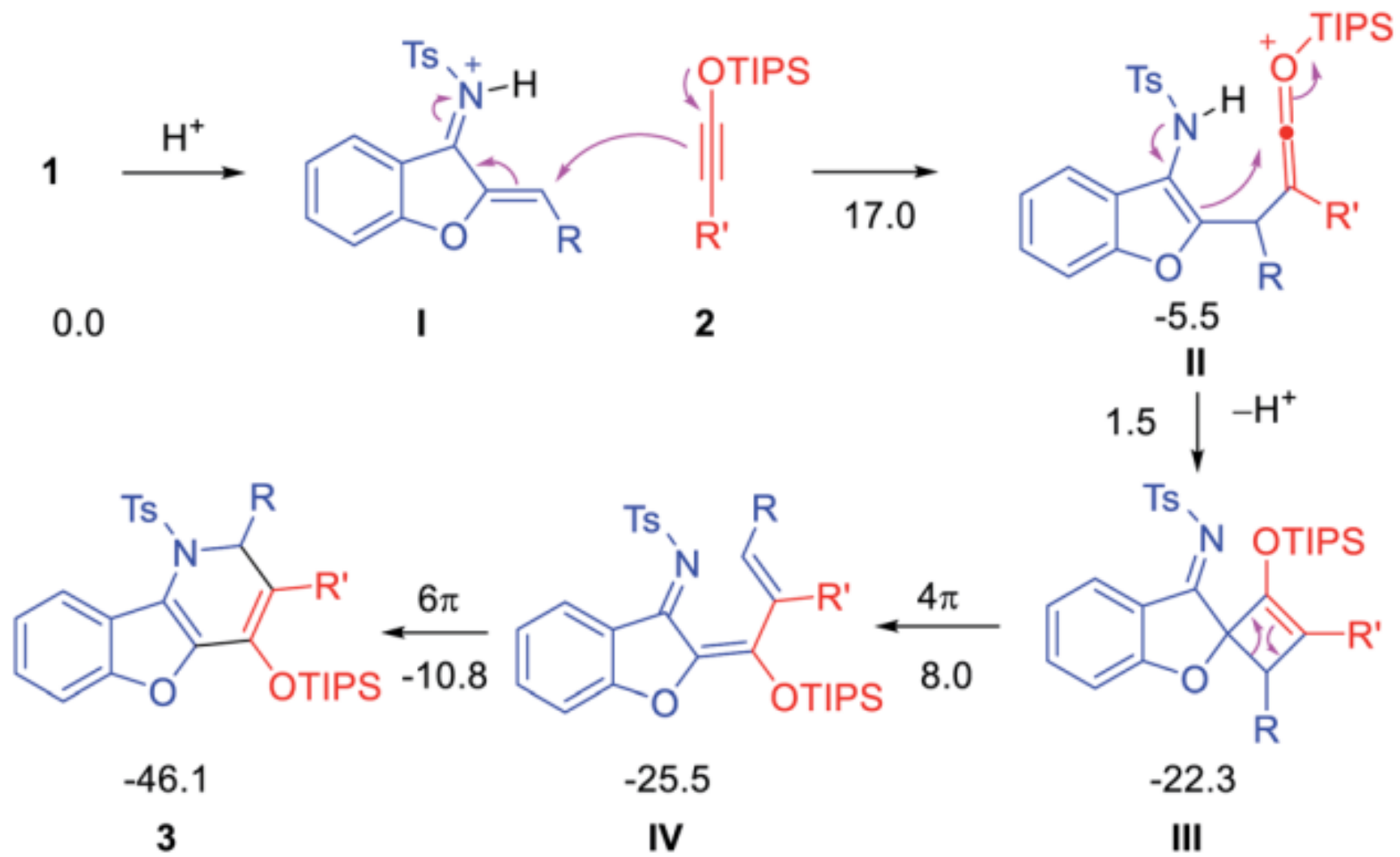


1.

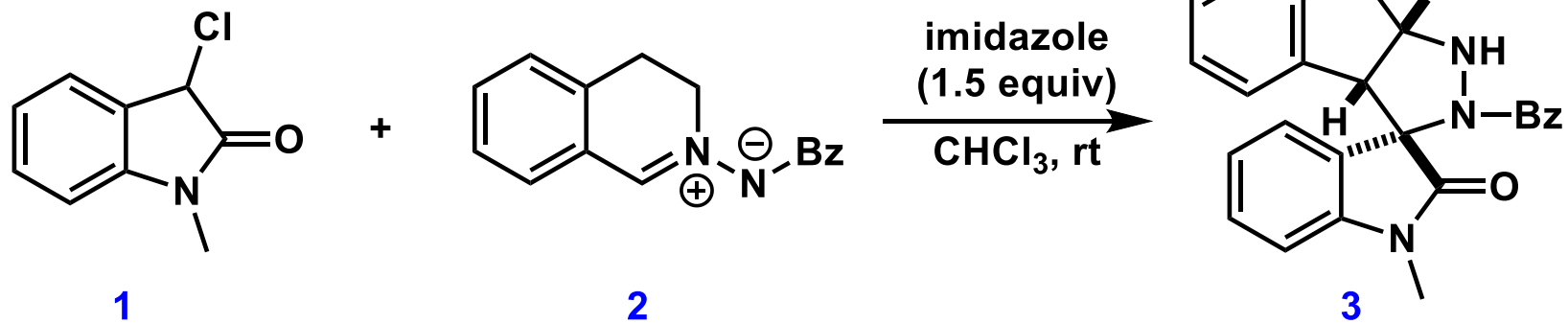


Chem. Sci. **2021**, *12*, 7953.

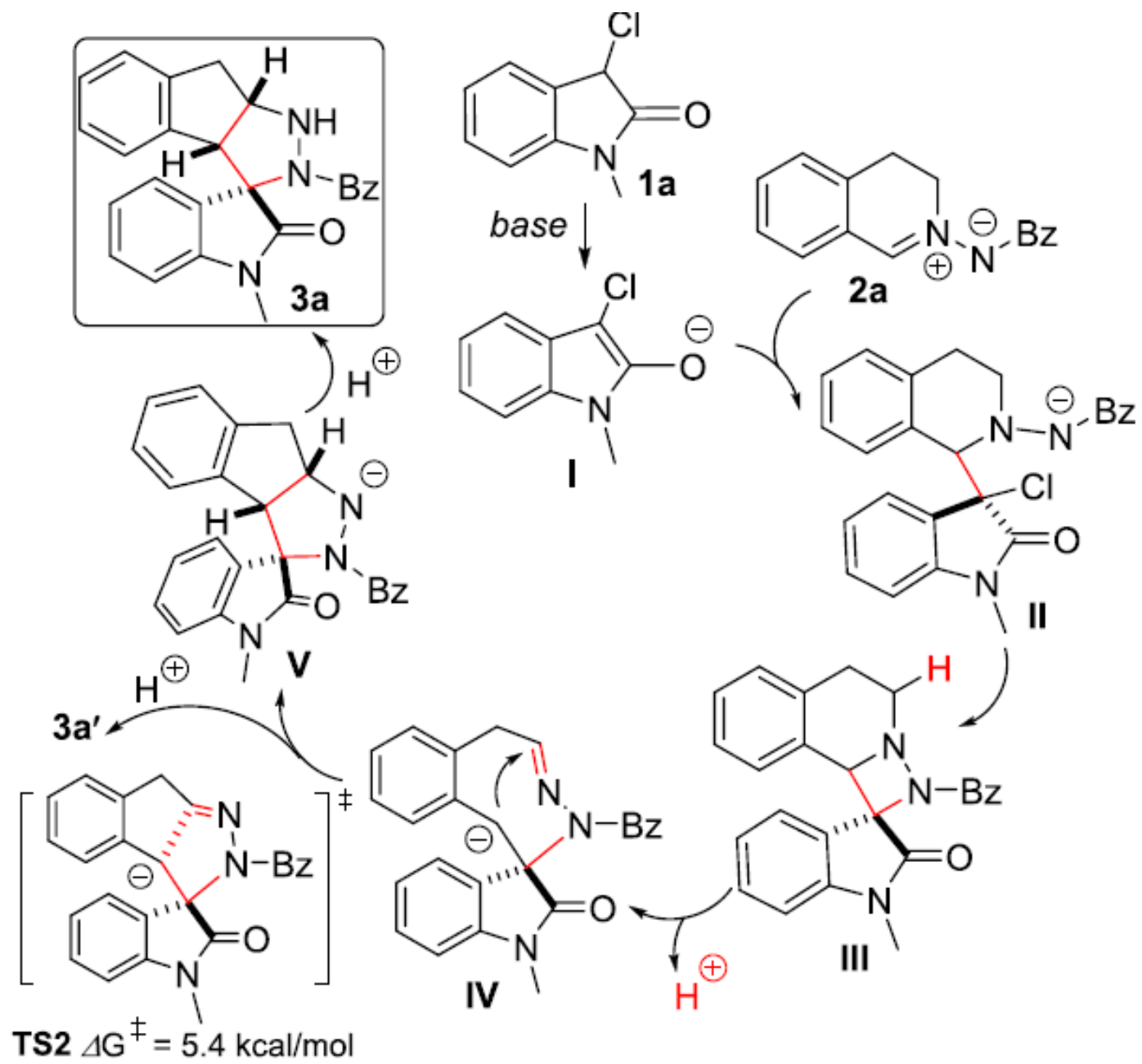




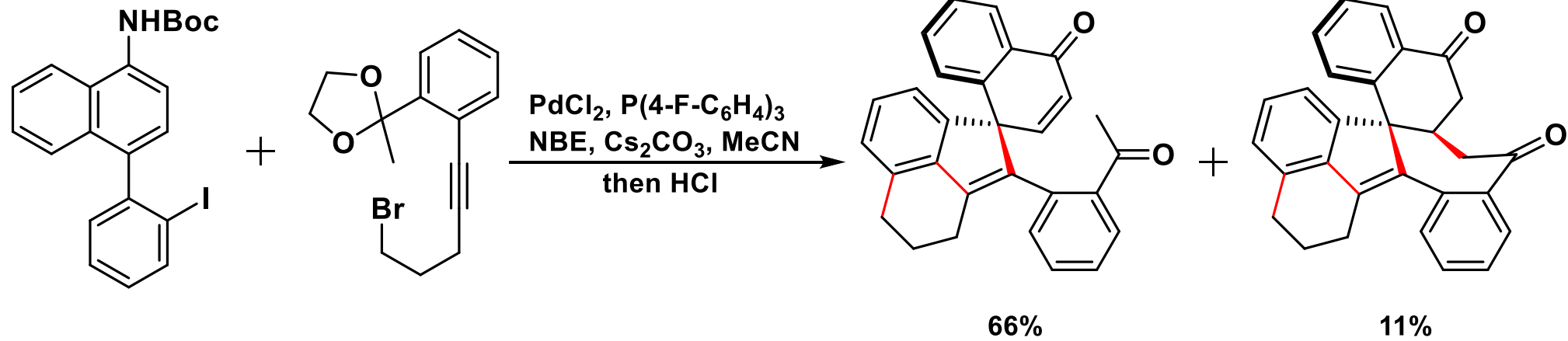
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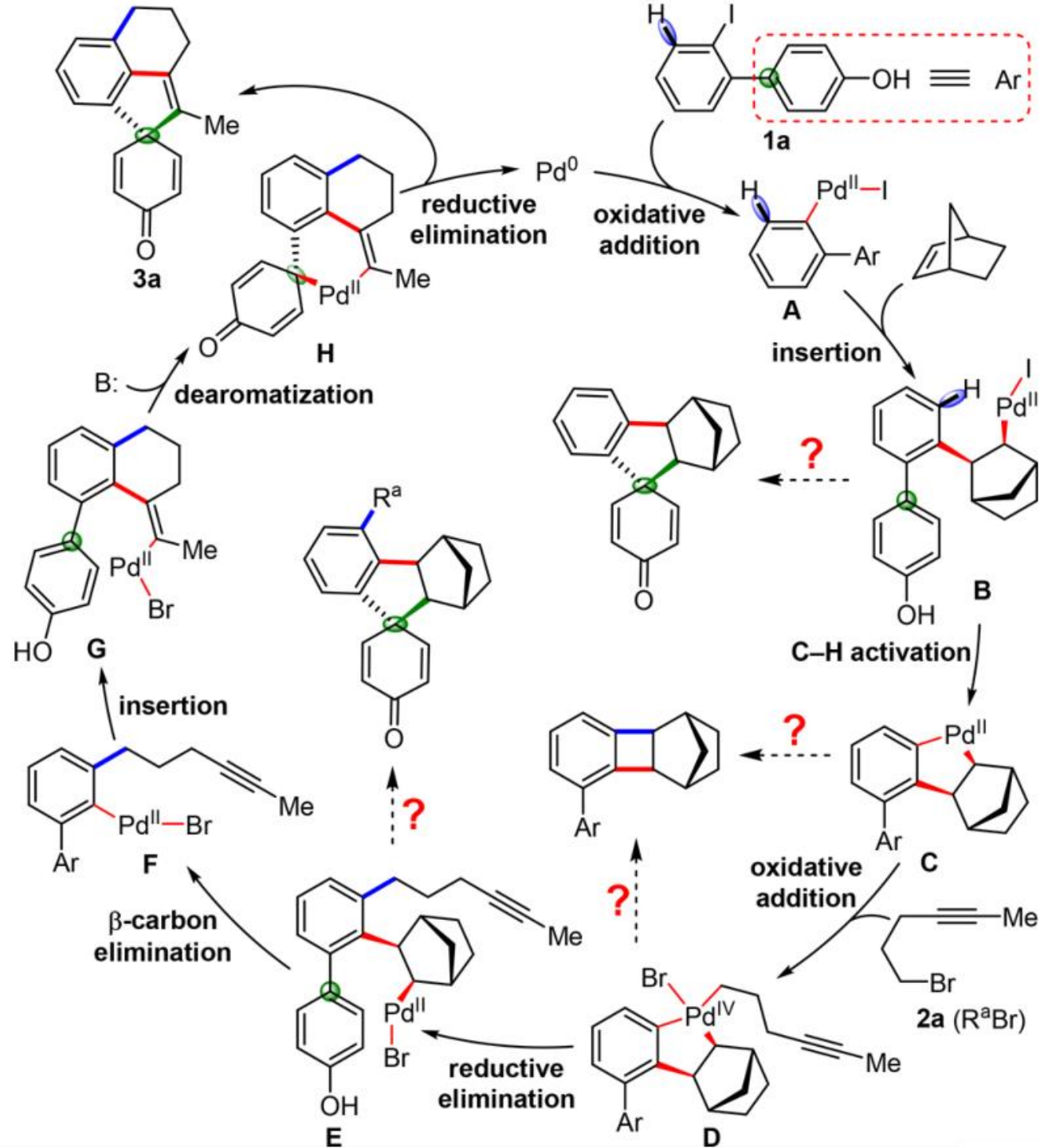
Org. Lett. **2019**, *21*, 10052.



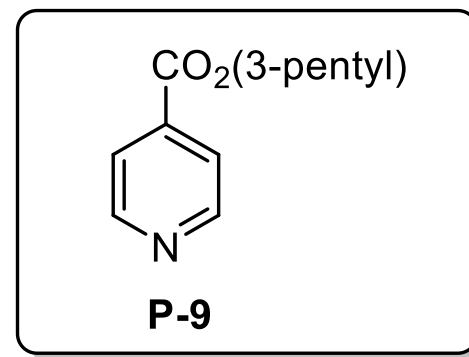
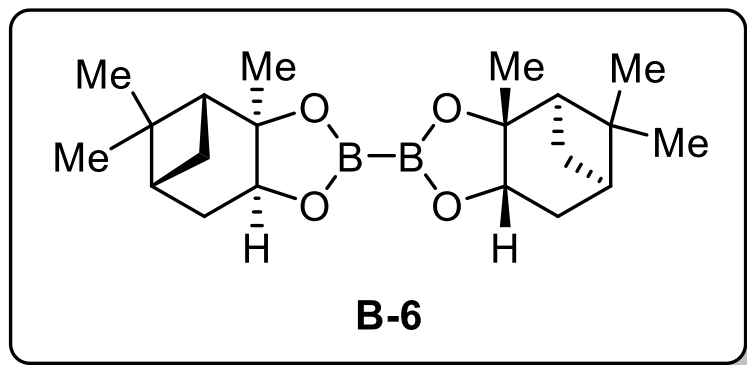
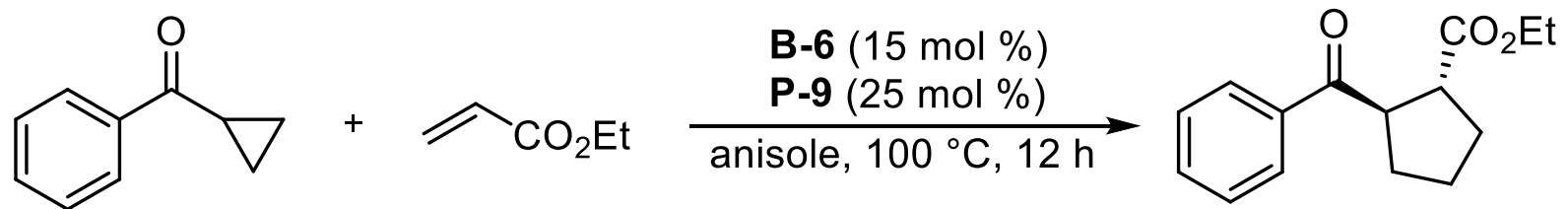
3.



J. Am. Chem. Soc., **2021**, *143*, 21270.

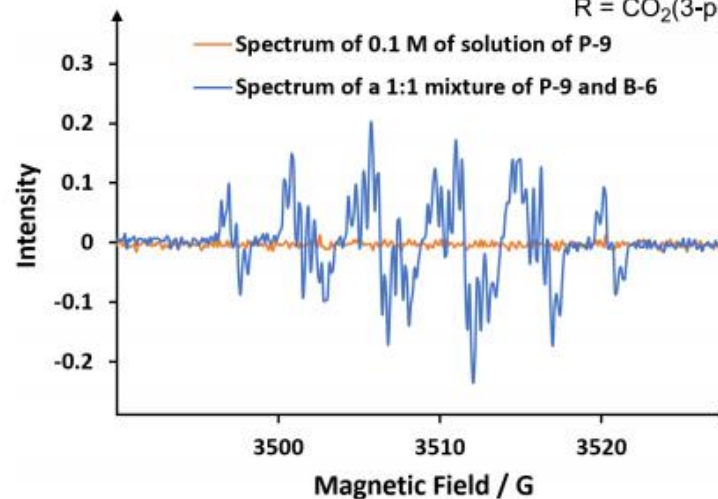
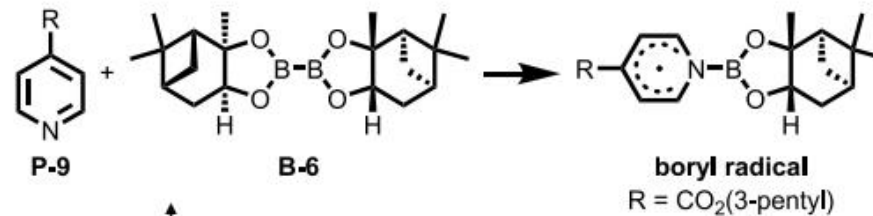


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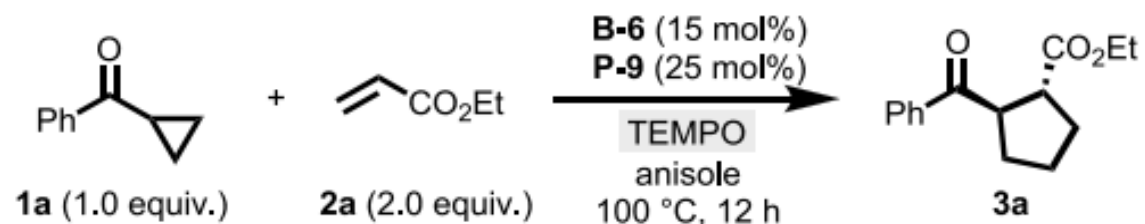


DOI:10.1021/jacs.2c03673.

A. electron paramagnetic resonance (EPR) experiments



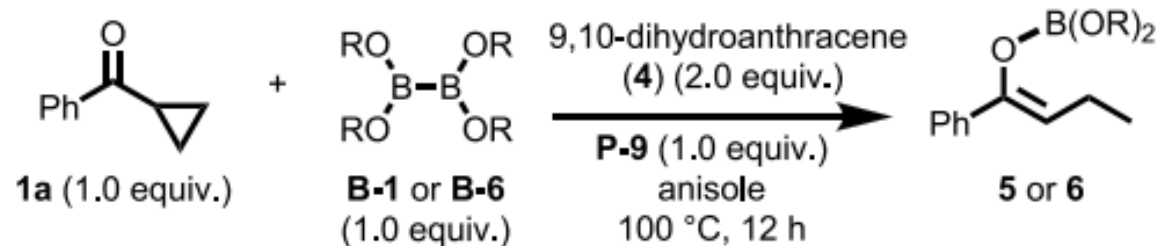
B. TEMPO stoichiometrically inhibited the catalyst



TEMPO 10 mol%, **3a** 73% (77% conv.)

TEMPO 10 mol%, no reaction.

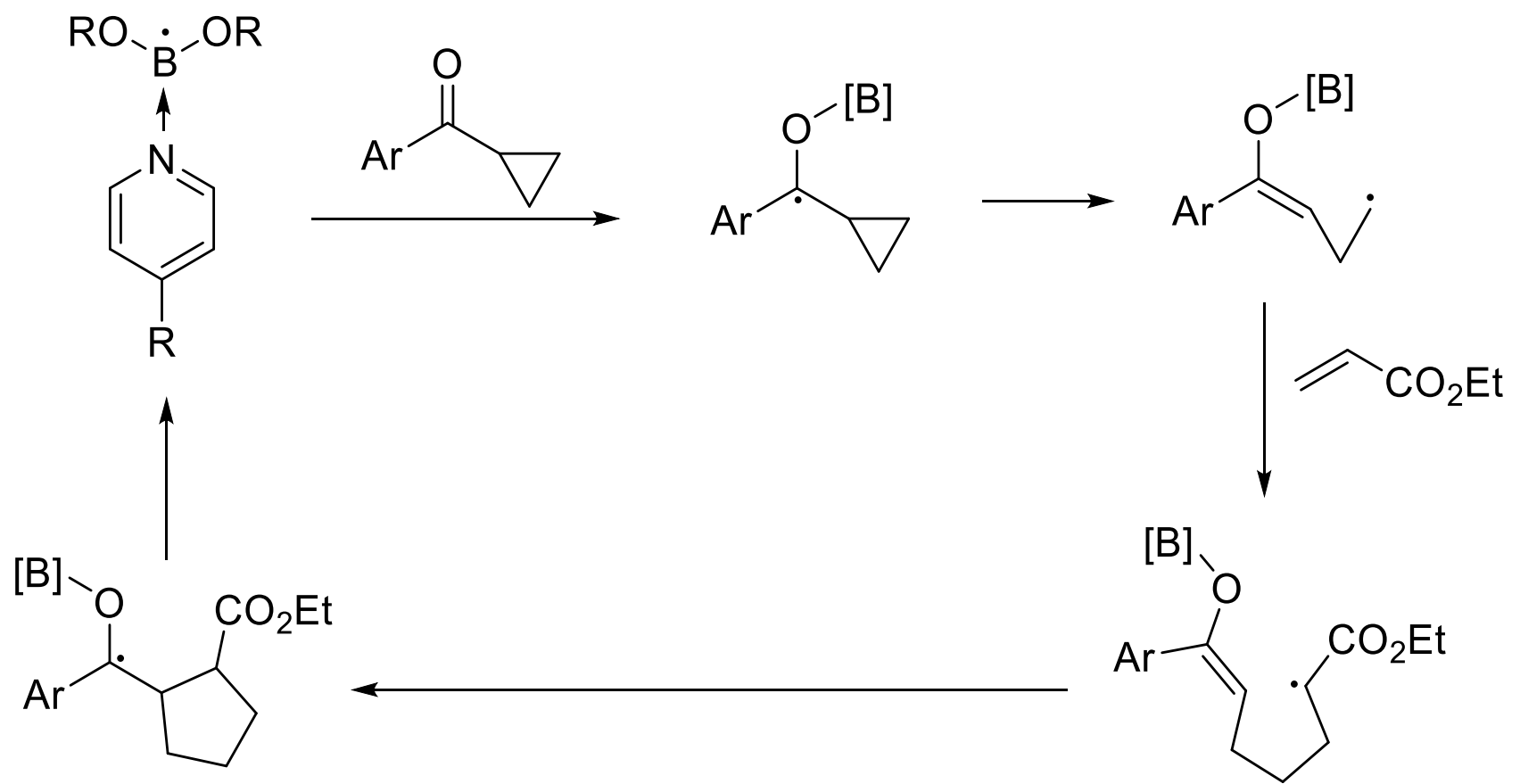
C. interception with a hydrogen donor led to ring-opened boron enolate

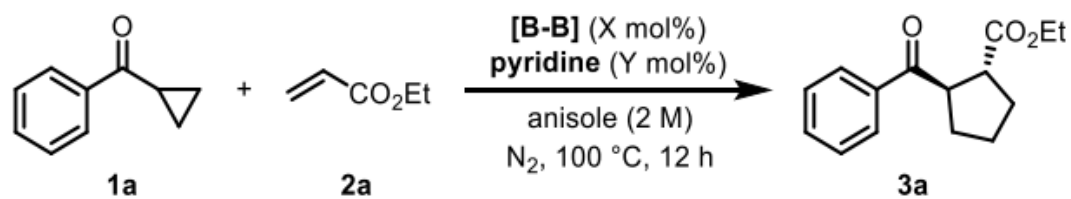


5 (using **B-1**) 21% (38% conv.)

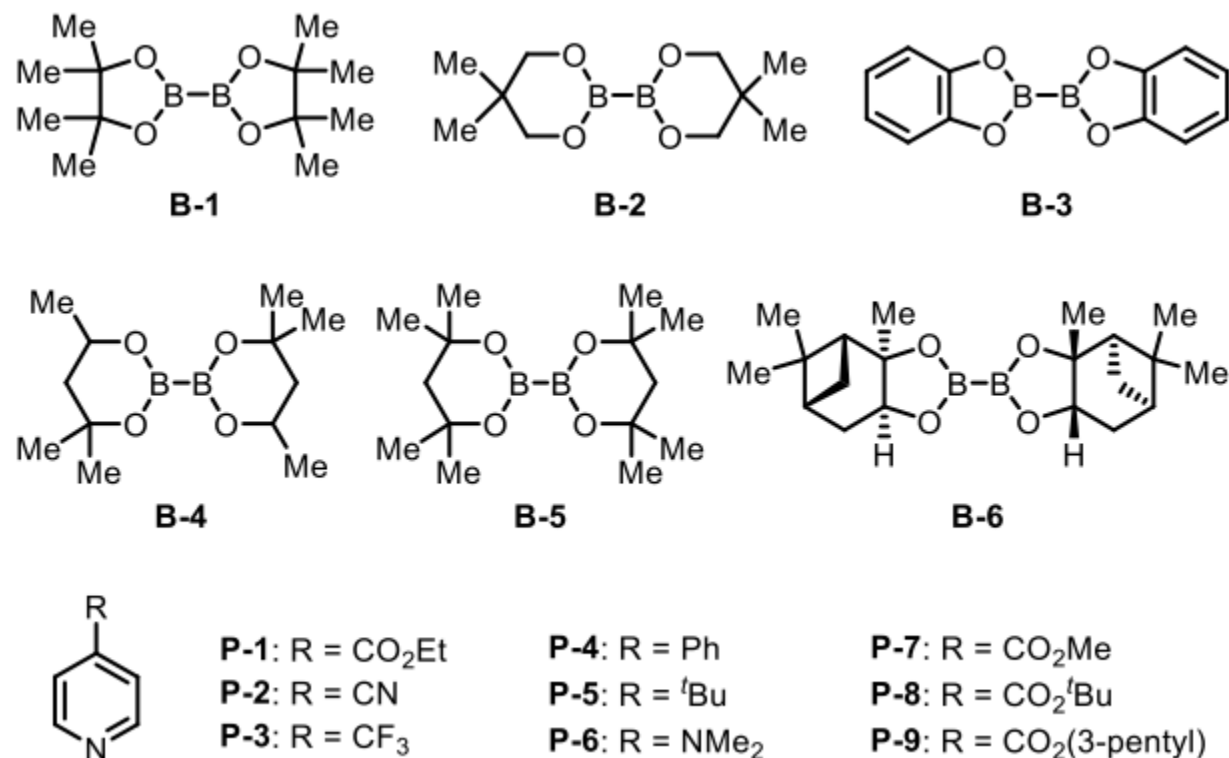
6 (using **B-6**) 59% (87% conv.)

by ¹H, ¹³C NMR,
COSY and HRMS





entry	[B-B] (X mol %)	pyridine (Y mol %)	conversion (%)	yield (%)
1	B-1 (15)	P-1 (25)	32	28
2	B-2 (15)	P-1 (25)	7	<5
3	B-3 (15)	P-1 (25)	12	<5
4	B-4 (15)	P-1 (25)	38	37
5	B-5 (15)	P-1 (25)	50	48
6	B-6 (15)	P-1 (25)	87	86
7	B-6 (15)	P-2 (25)	66	65
8	B-6 (15)	P-3 (25)	5	<5
9	B-6 (15)	P-4 (25)	7	<5
10	B-6 (15)	P-5 (25)	0	0
11	B-6 (15)	P-6 (25)	0	0
12	B-6 (15)	P-7 (25)	86	83
13	B-6 (15)	P-8 (25)	79	76
14	B-6 (15)	P-9 (25)	92	90(87 ^b)
15	B-6 (10)	P-9 (25)	83	80
16	B-6 (5)	P-9 (25)	<5	<5
17	B-6 (15)	P-9 (50)	70	68
18	B-6 (15)	P-9 (10)	67	65
19		P-9 (25)	0	0
20	B-6 (15)		0	0



^aReactions were run on 0.3 mmol scale in 0.15 mL of anisole at 100 °C for 12 h. Conversion and yield were determined by ¹H NMR using 1,3,5-trimethoxybenzene as an internal standard. ^bIsolated yield.

