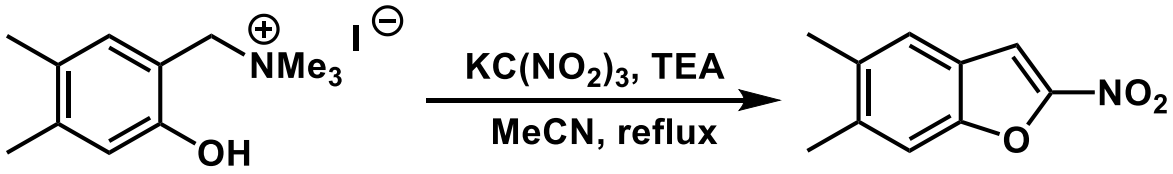
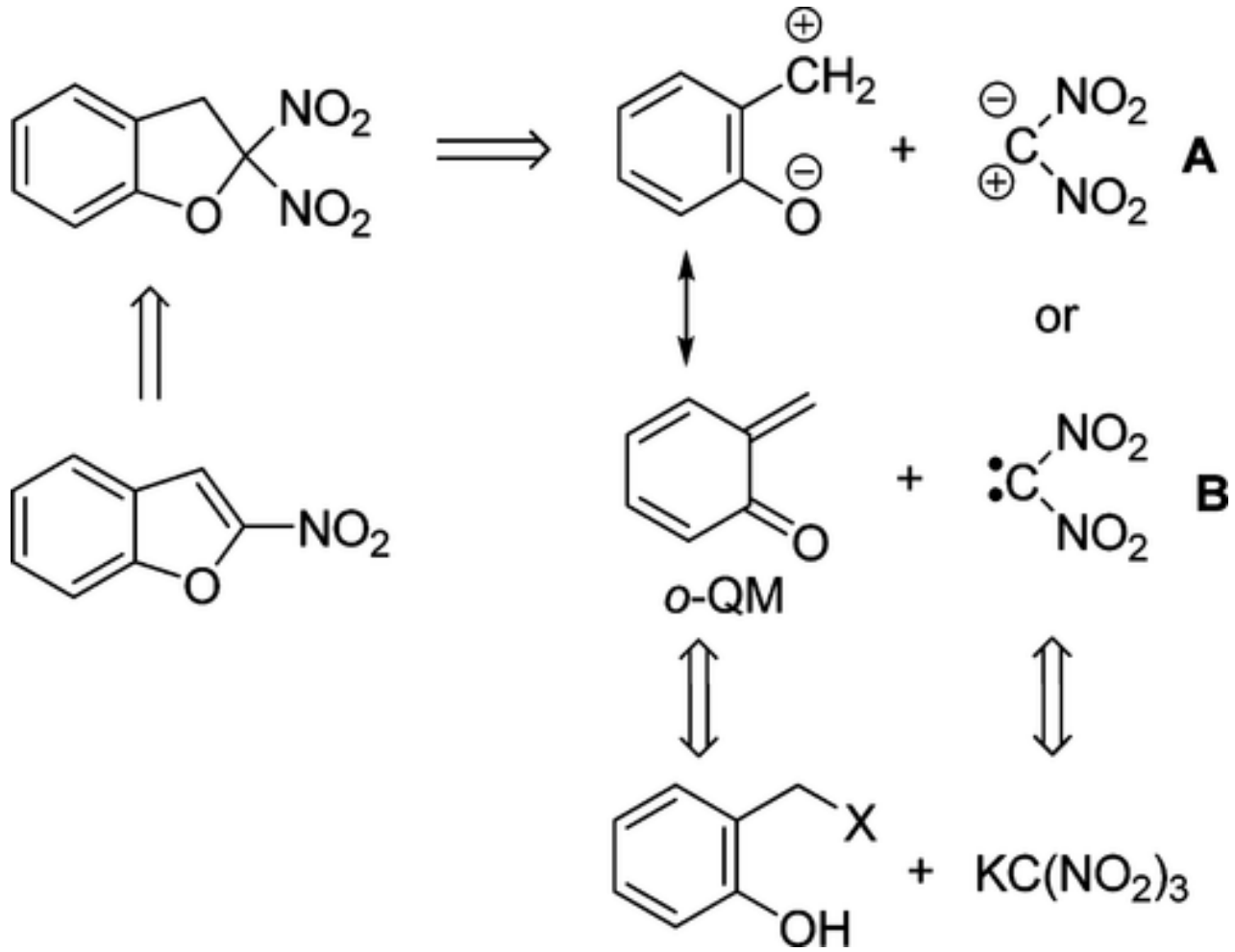
1.

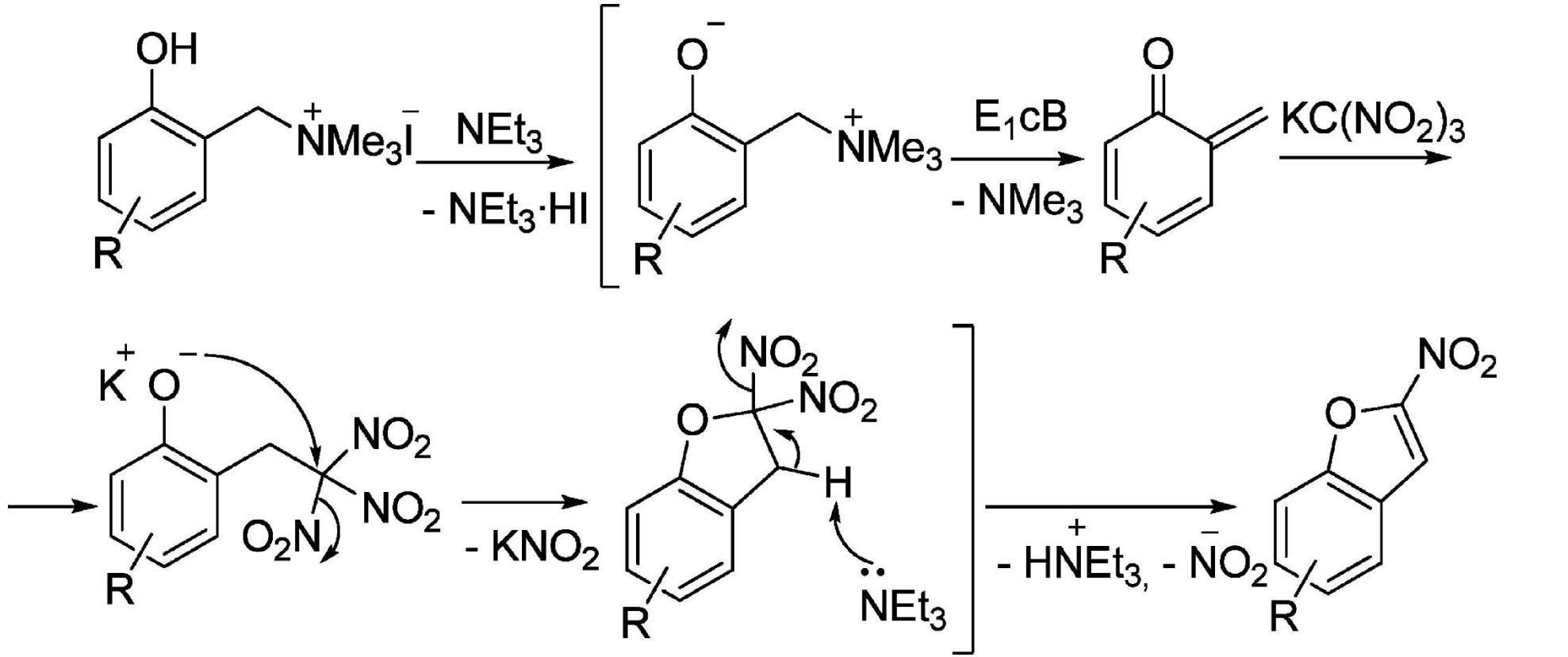


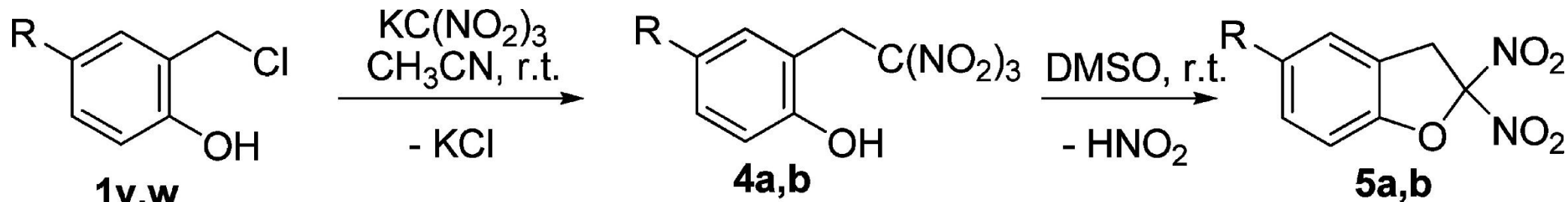
J. Org. Chem. **2014**, *79*, 1192.



$$C(NO_2)_4 + KOH + C_2H_5OH$$

$$\rightarrow KC(NO_2)_3 + C_2H_5ONO_2 + H_2O$$

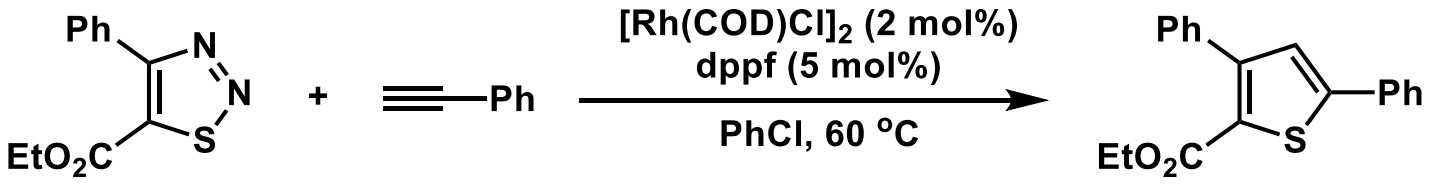




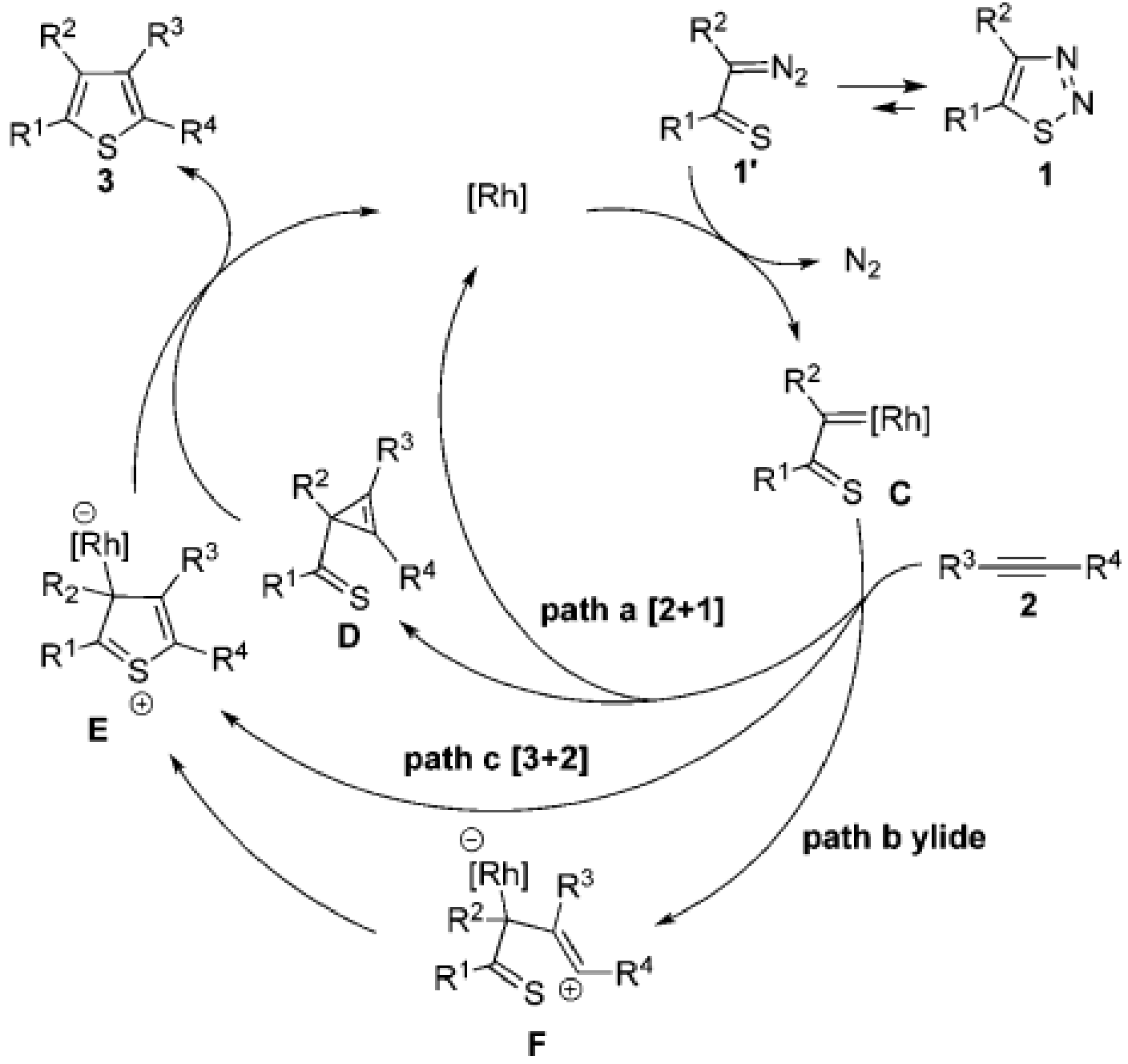
1v,w **4a,b** **5a,b**

R = NO_2 (**1v,4a,5a**), COMe (**1w,4b,5b**)

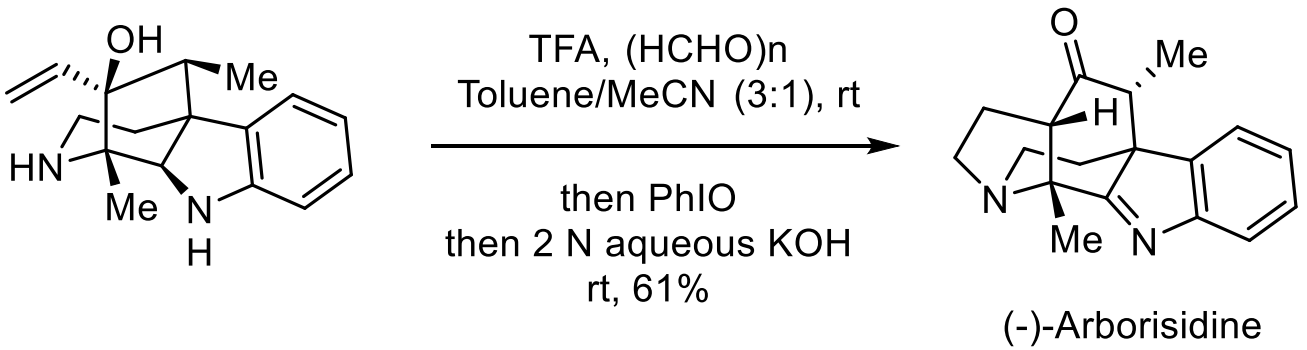
2.



Org. Lett. **2016**, *18*, 1804.

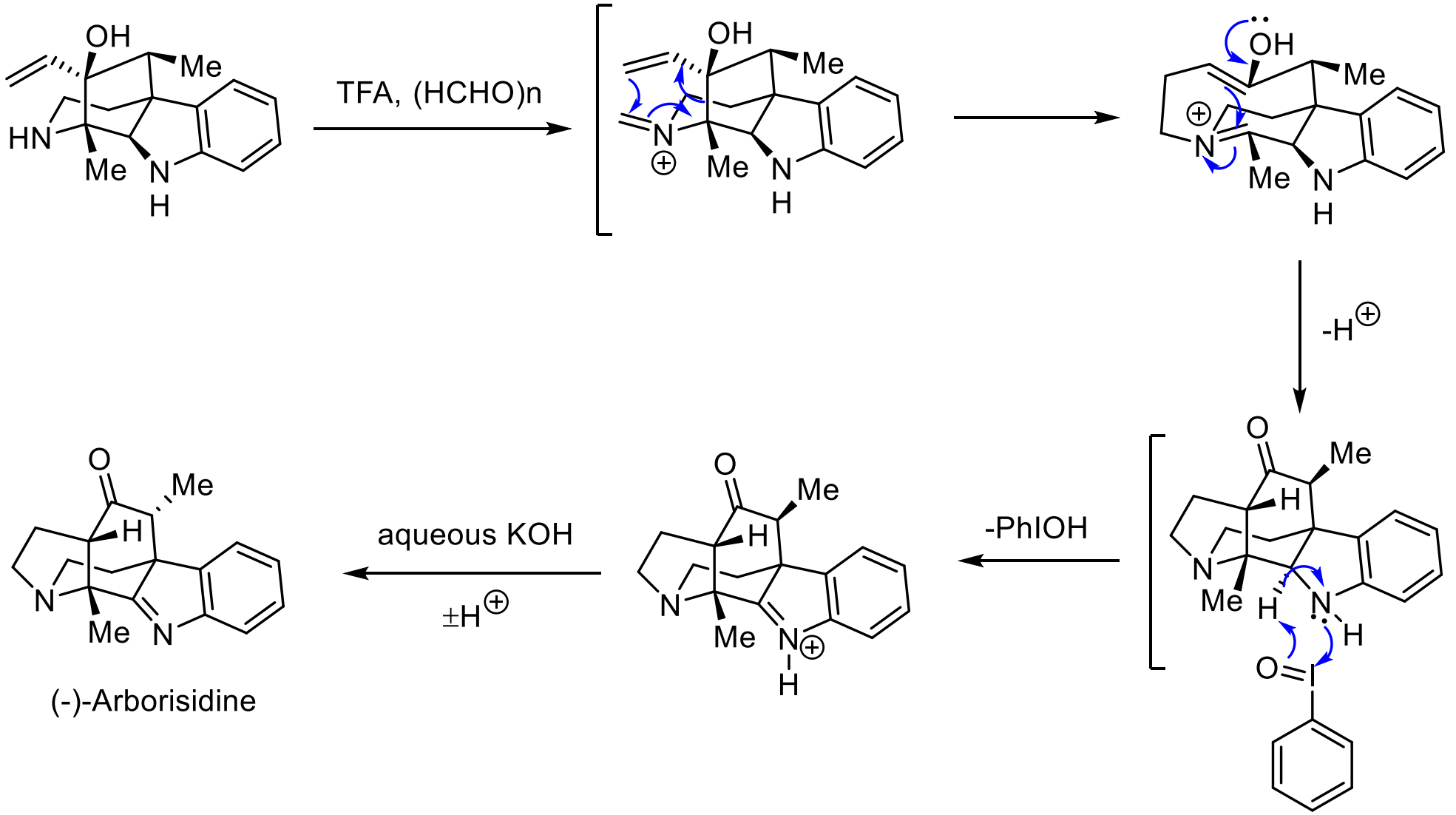

[Rh]
N2
path a [2+1]
path b ylide
path c [3+2]
3
1'
1
C
D
E
F
2

3.

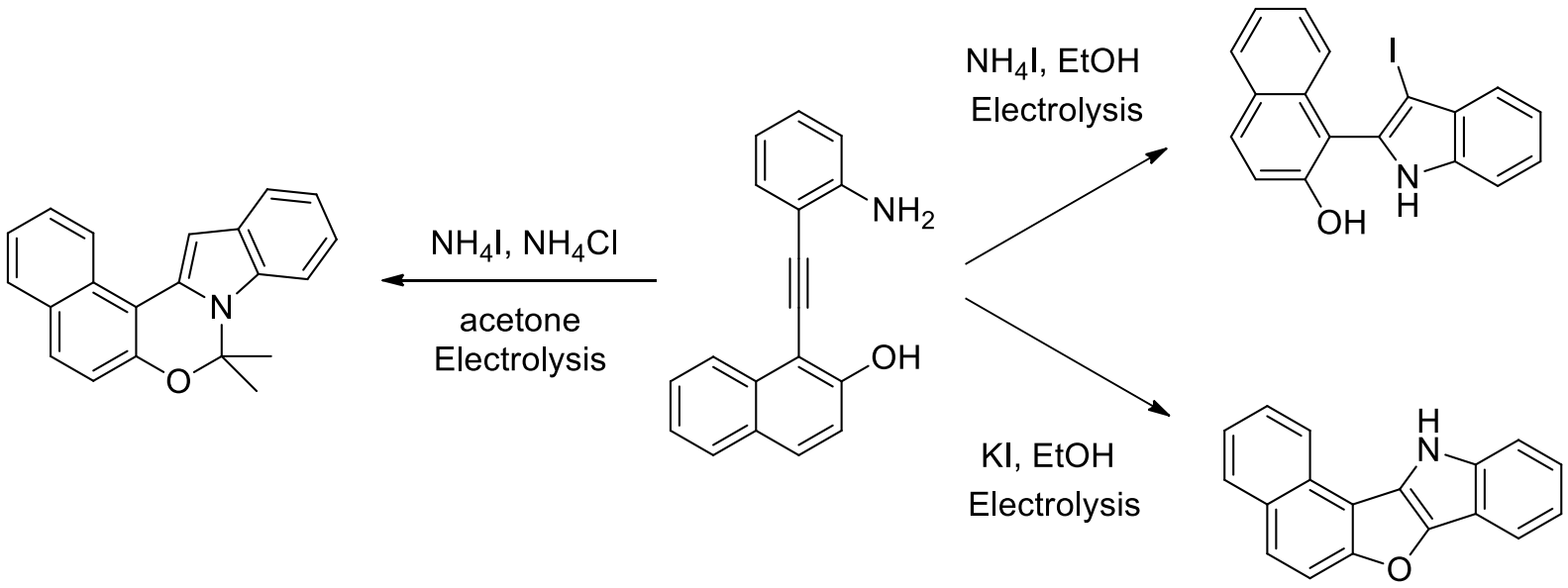


(-)-Arborisidine

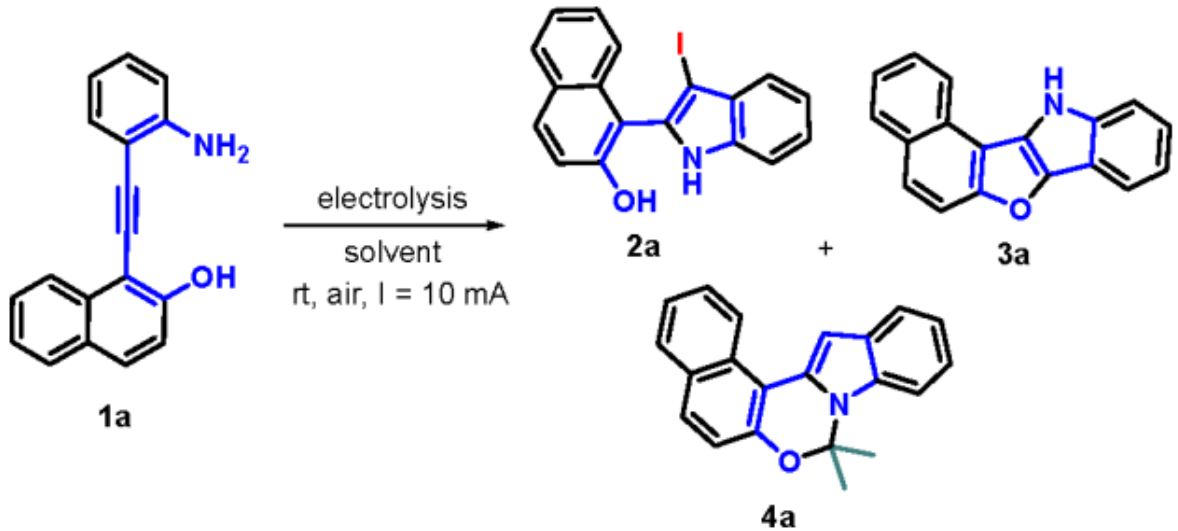
J. Am. Chem. Soc. **2020**, *142*, 14276.


OH
Me
HN
Me
N
H
TFA, (HCHO)n
OH
Me
N
Me
N
H
OH
Me
N
Me
N
H
-H⊕
O
Me
H
N
Me
H
N
H
O
-PhIOH
O
Me
H
N
Me
N
H
aqueous KOH
±H⊕
O
Me
H
N
Me
N
(-)-Arborisidine

4.

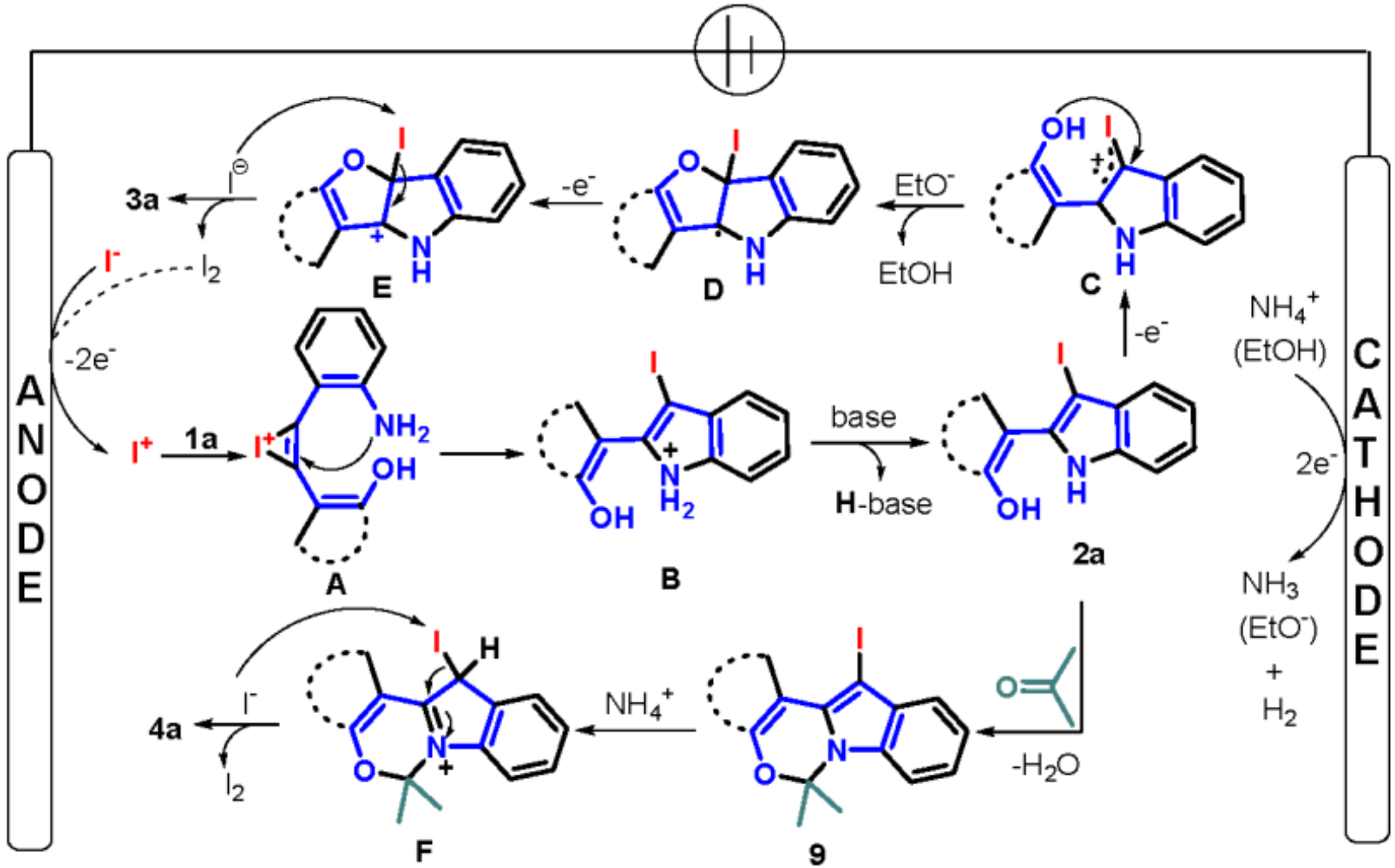


J. Org. Chem. **2021**, *86*, 15886.



entry	electrolyte	solvent	electrode	yield[b] of **2a**/**3a**/**4a** (%)
1	NH_4I	MeOH	Pt(+)|Pt(−)	89/0/0
2	NH_4I	EtOH	Pt(+)|Pt(−)	92/0/0
3	NH_4I	EtOH	GR(+)|Pt(−)	80/0/0
4	NH_4I	EtOH	GR(+)|GR(−)	85/0/0
5	TBAI	EtOH	Pt(+)|Pt(−)	0/63/0
6	KI	EtOH	Pt(+)|Pt(−)	trace/72/0
7	NH_4I	EtOH/acetone	Pt(+)|Pt(−)	60/trace/27
8	NH_4I	acetone	Pt(+)|Pt(−)	trace/trace/40
9[c]	NH_4I	acetone	Pt(+)|Pt(−)	trace/trace/62

[a]Reaction conditions: undivided cell, constant current = 10 mA, **1a** (0.1 mmol), electrolyte (0.2 mmol), solvent (5 mL) under room temperature, 1 h for **2a** and **3a**, 10 h for **4a**. [b]Isolated yield based on substrate **1a**. [c]NH_4Cl (10 mol %).


ANODE
CATHODE
3a
I⊖
I2
-e-
EtO-
EtOH
E
D
C
I-
-2e-
I+
1a
A
B
base
H-base
2a
-e-
NH4+
(EtOH)
2e-
NH3
(EtO-)
+
H2
4a
I-
I2
F
NH4+
9
-H2O