Supporting Information

Alkali-Metal Ion Catalysis in Alkaline Ethanolysis of 2-Pyridyl Benzoate and Benzyl 2-Pyridyl Carbonate: Effect of Modification of Nonleaving Group from Benzoyl to Benzyloxycarbonyl

Ik-Hwan Um,[*] Ji-Sun Kang, Chae Won Kim,[†] and Jae-In Lee[†]

Department of Chemistry and Nano Science, Ewha Womans University, Seoul 120-750, Korea. [*]E-mail: ihum@ewha.ac.kr
[†]Department of Chemistry and Plant Resources Research Institute, Duksung Women's University, Seoul 132-714, Korea
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Table S1. Kinetic data for reaction of benzyl 2-pyridyl carbonate **6** with EtOLi in anhydrous EtOH at 25.0 ± 0.1 °C

[EtOLi]/mM	$10^2k_{obsd}/s^{-1}$	[EtOLi]/mM	$10^2k_{obsd}/s^{-1}$
1.97	0.766	2.05	0.807
3.85	1.75	4.00	1.80
6.23	3.00	5.87	2.87
7.65	3.85	7.65	3.99
8.41	4.35	9.34	5.03
9.89	5.28	11.0	6.08
10.97	6.10	12.5	7.09
12.0	6.72	–	–
14.0	8.03	–	–

Table S2. Kinetic data for reaction of benzyl 2-pyridyl carbonate **6** with EtONa in anhydrous EtOH at 25.0 ± 0.1 °C

[EtONa]/mM	$10^2k_{obsd}/s^{-1}$	[EtONa]/mM	$10^2k_{obsd}/s^{-1}$
2.41	0.969	2.41	0.993
4.73	2.40	4.73	2.40
7.68	4.51	6.96	3.80
9.11	5.35	9.11	5.34
11.2	7.30	11.2	7.06
12.3	8.07	13.2	8.58
13.2	8.82	15.1	10.2
14.5	9.82	17.0	12.0

Table S3. Kinetic data for reaction of benzyl 2-pyridyl carbonate **6** with EtOK in anhydrous EtOH at 25.0 ± 0.1 °C

[EtOK]/mM	$10^2k_{obsd}/s^{-1}$	[EtOK]/mM	$10^2k_{obsd}/s^{-1}$
3.88	2.10	2.46	1.13
4.81	2.67	4.81	2.68
6.31	3.76	7.05	4.39
8.78	5.95	9.18	6.24
10.8	7.75	11.2	8.27
13.2	9.94	13.2	9.92
14.4	11.3	15.0	12.0
16.8	14.1	16.8	14.0

Table S4. Kinetic data for the reaction of benzyl 2-pyridyl carbonate **6** with EtOK in the presence of excess 18C6 in anhydrous EtOH at 25.0 ± 0.1 °C. ([18C6]/[KOEt] = 5.0)

[EtOK]/mM	$10^2k_{obsd}/s^{-1}$	[EtOK]/mM	$10^2k_{obsd}/s^{-1}$
4.59	1.18	4.59	1.23
9.18	2.30	9.18	2.34
11.7	2.91	11.7	3.01
14.4	3.69	14.4	3.71
16.8	4.13	16.8	4.21
18.9	4.65		

Table S5. Kinetic data for the effect of added 18C6 on reactivity of EtOK toward benzyl 2-pyridyl carbonate **6** in anhydrous EtOH at 25.0 ± 0.1°C. ([EtOK] = 15.0 mM)

[18C6/EtOK]	$10^2k_{obsd}/s^{-1}$
0	12.0
0.35	9.85
0.53	8.11
0.71	6.98
1.00	4.52
2.10	4.52
3.00	4.51
4.24	4.50
5.30	4.48