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Organic Superbase Derived Ionic Liquids Based on the TFSI Anion: Synthesis, Characterization, and Electrochemical Properties

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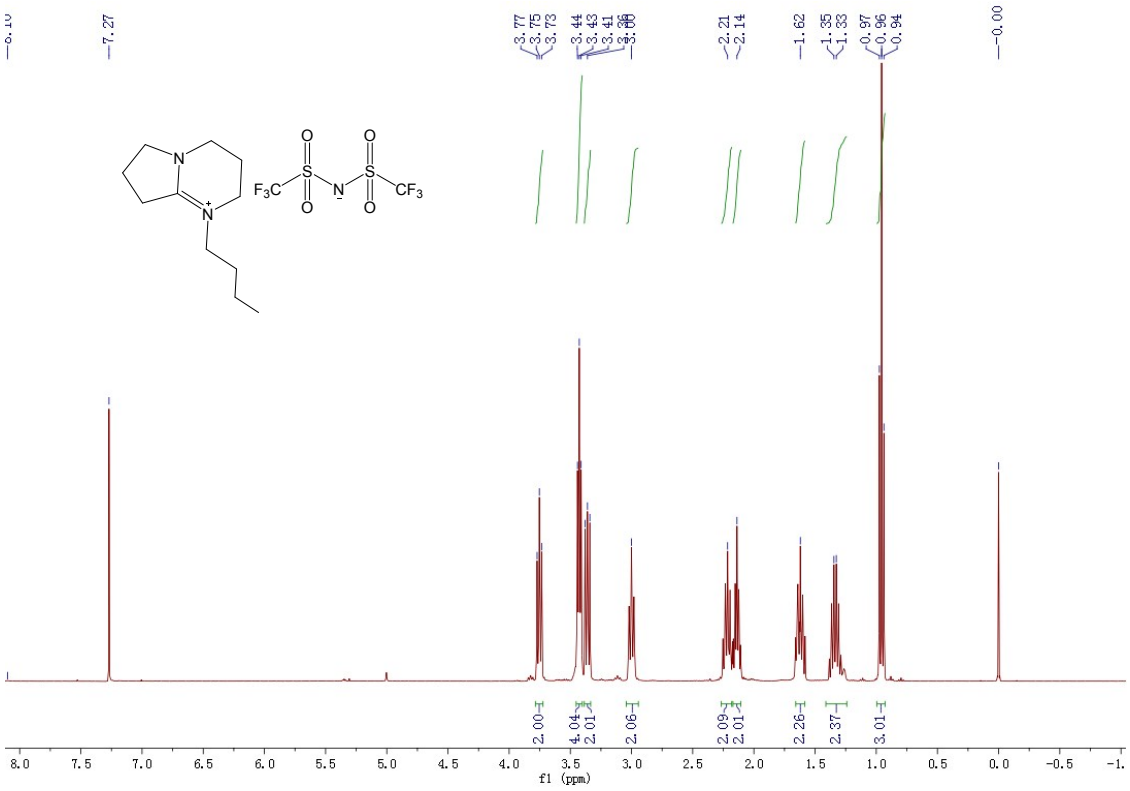

Fig. S1 ^{1}H NMR of [BuDBN][TFSI] in d_6-chloroform

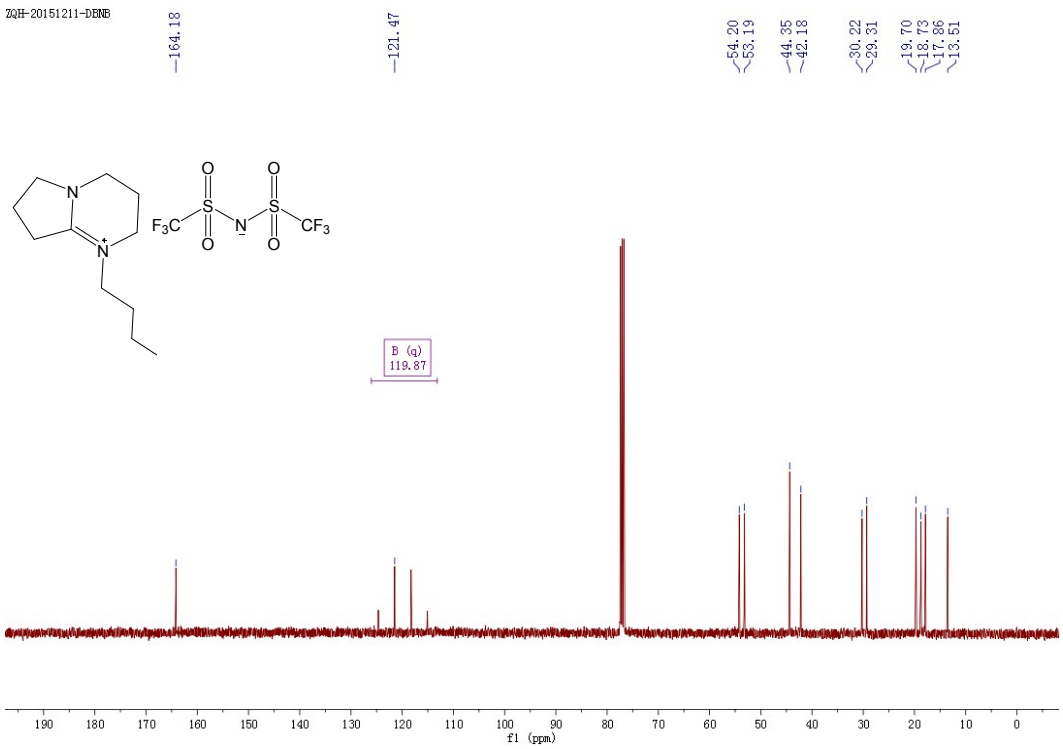

Fig. S2 ^{13}C NMR of [BuDBN][TFSI] in d_6-chloroform

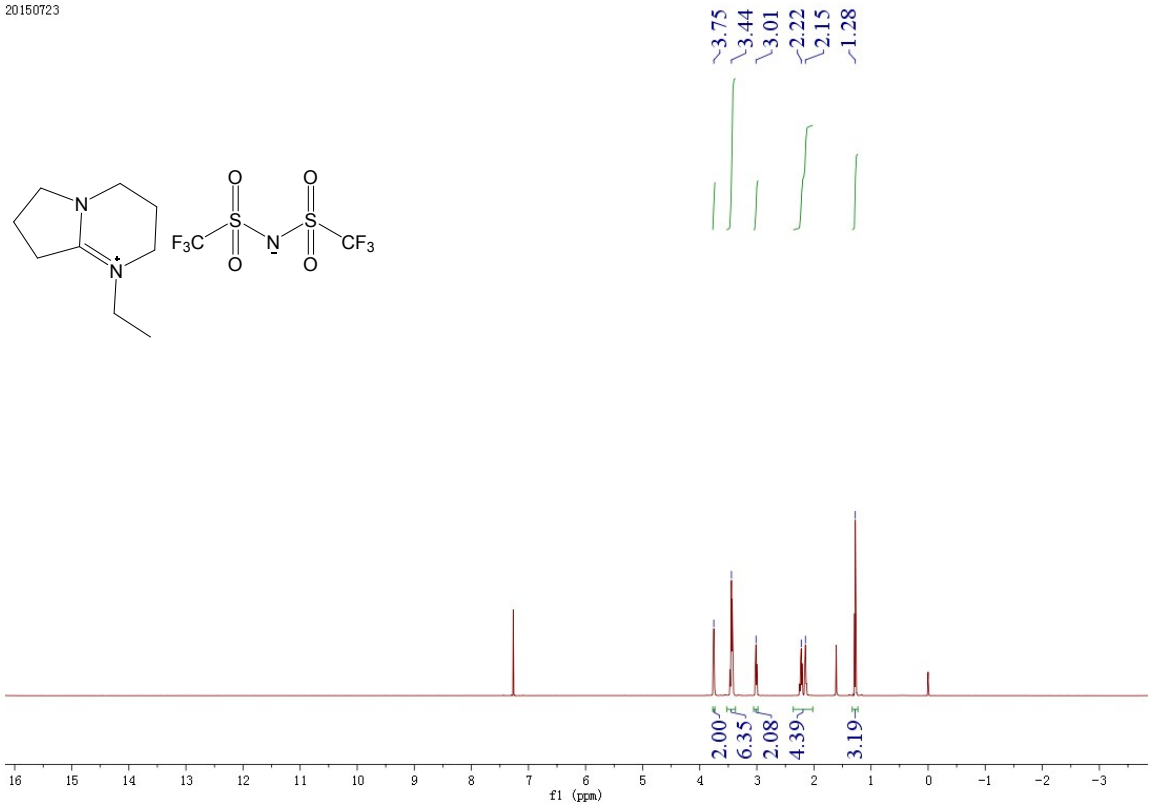

Fig. S3 ^{1}H NMR of [EtDBN][TFSI] in d_6-chloroform

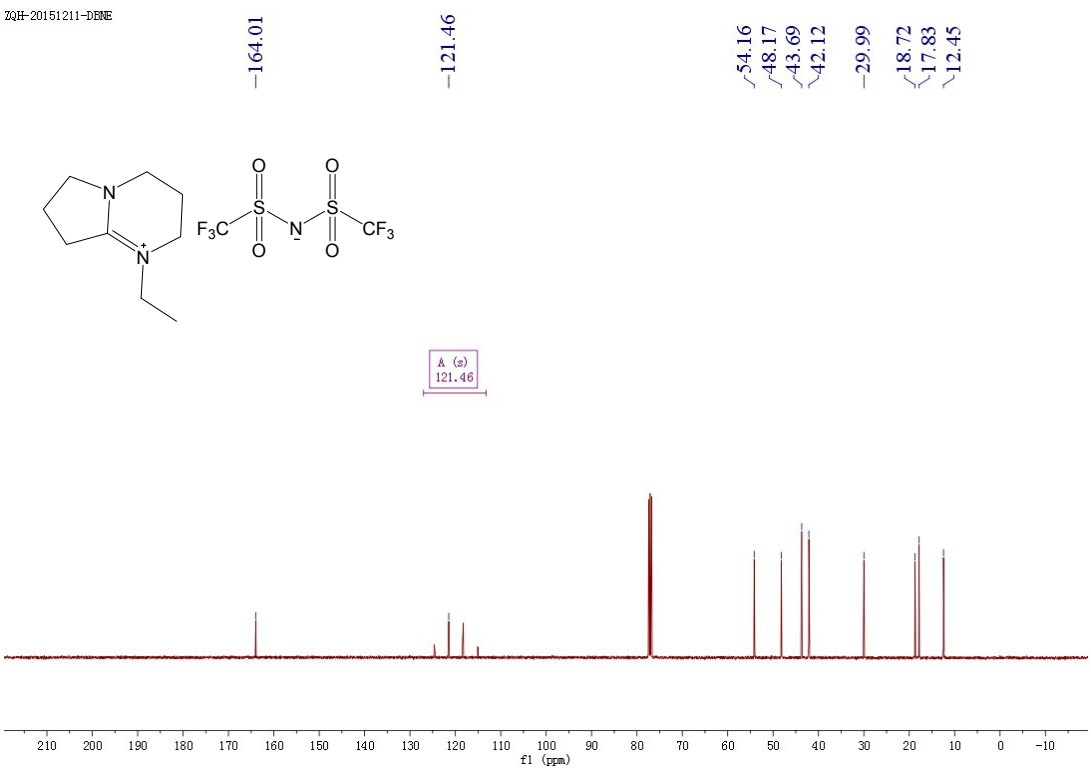

Fig. S4 ^{13}C NMR of [EtDBN][TFSI] in d6 chloroform

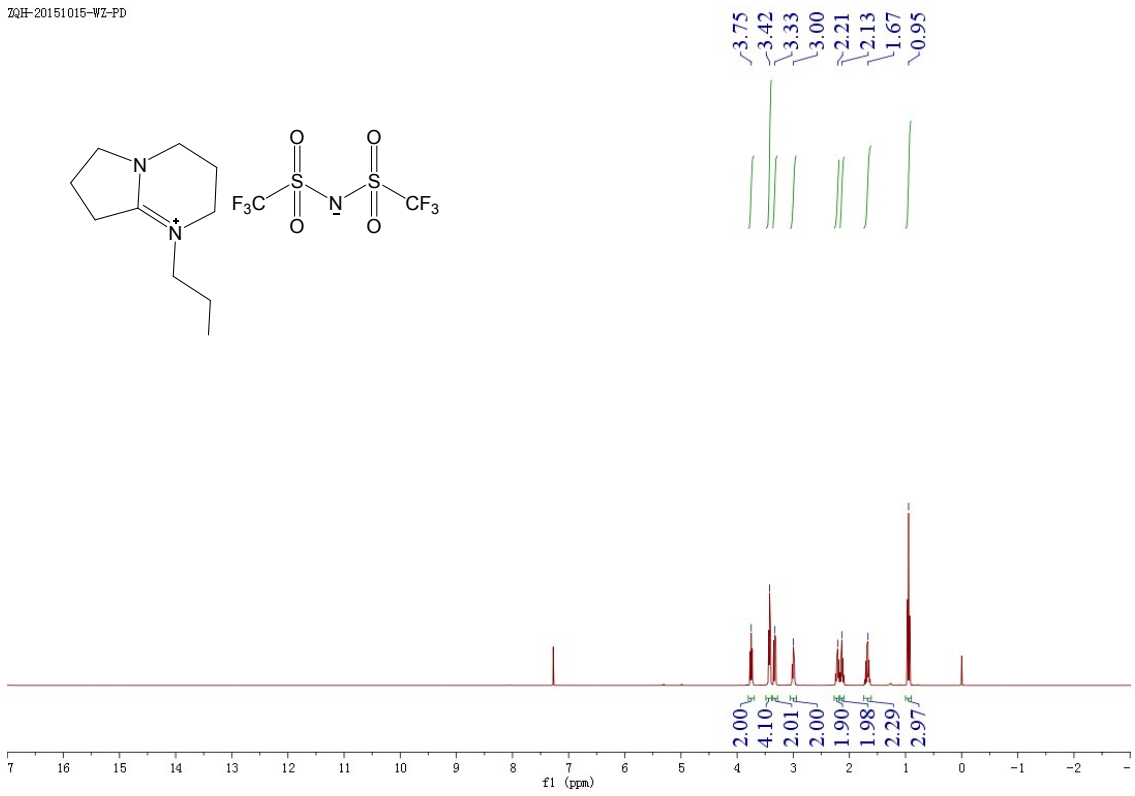

Fig. S5 ^{1}H NMR of [PrDBN][TFSI] in d6 chloroform

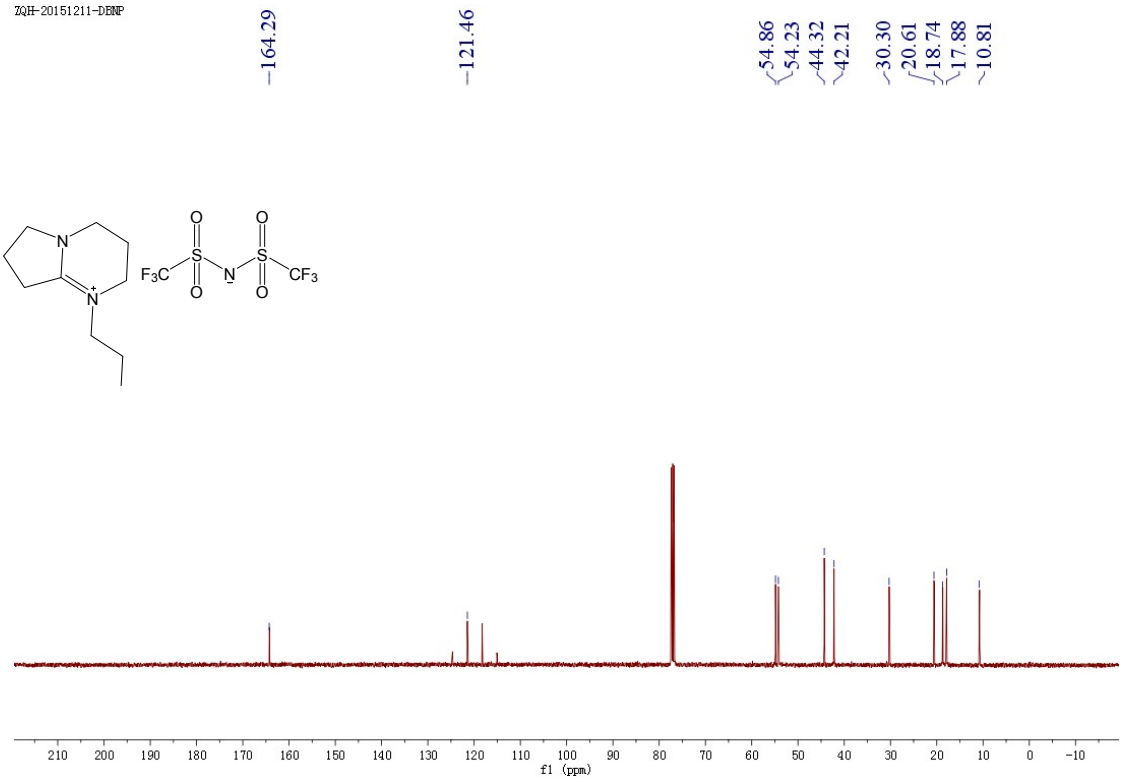

Fig. S6 ^{13}C NMR of [PrDBN][TFSI] in d_6-chloroform

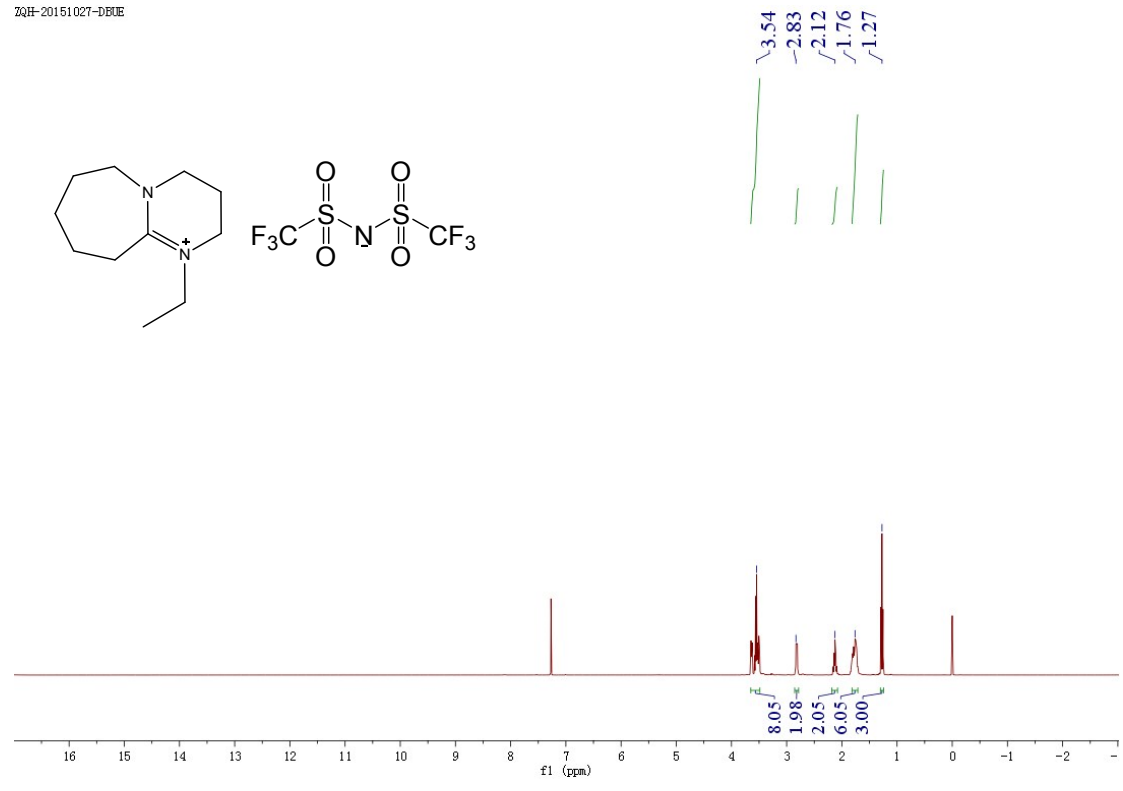

Fig. S7 ^{1}H NMR of [EtDBU][TFSI] in d_6-chloroform

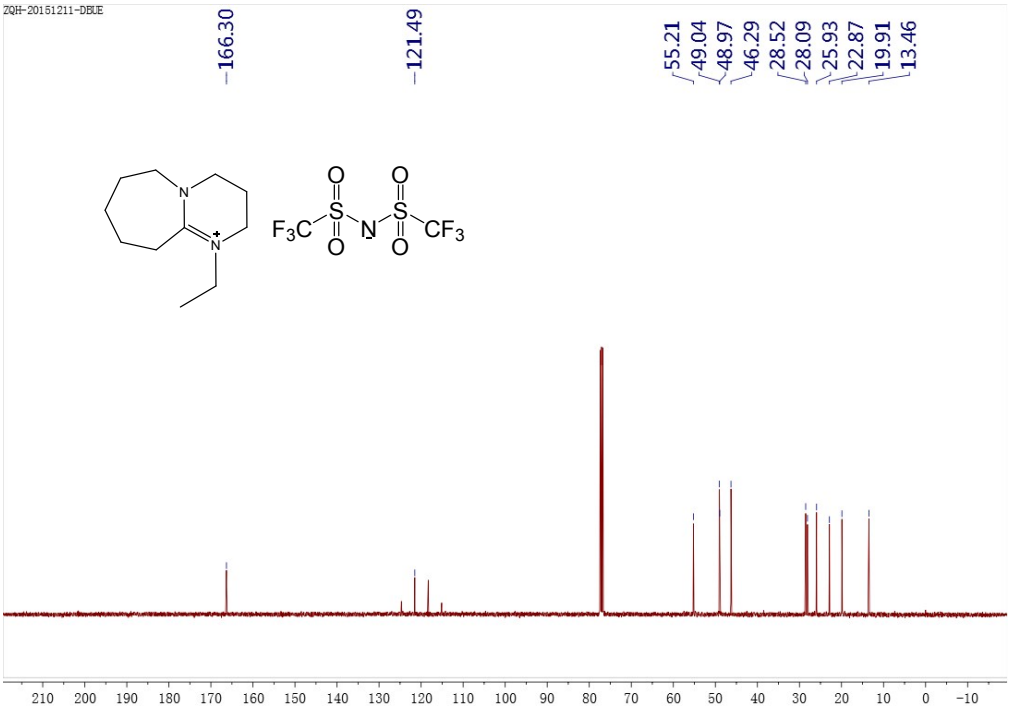

Fig. S8 ^{13}C NMR of [EtDBU][TFSI] in d_6-chloroform

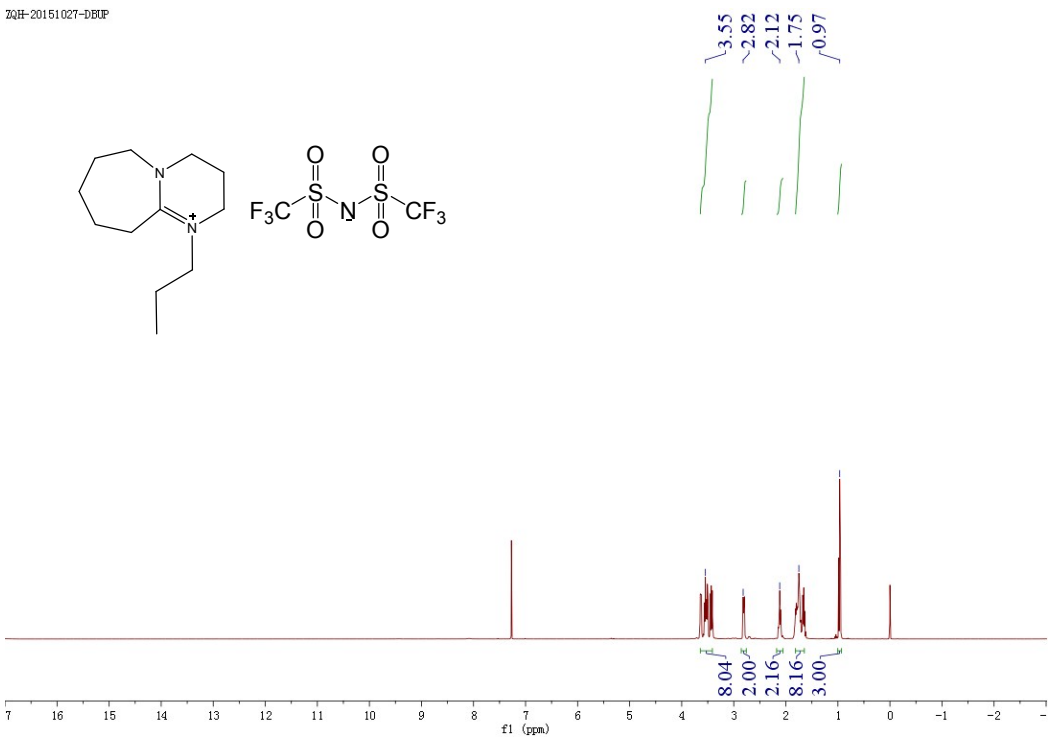

Fig. S9 ^{1}H NMR of [PrDBU][TFSI]in d_6-chloroform

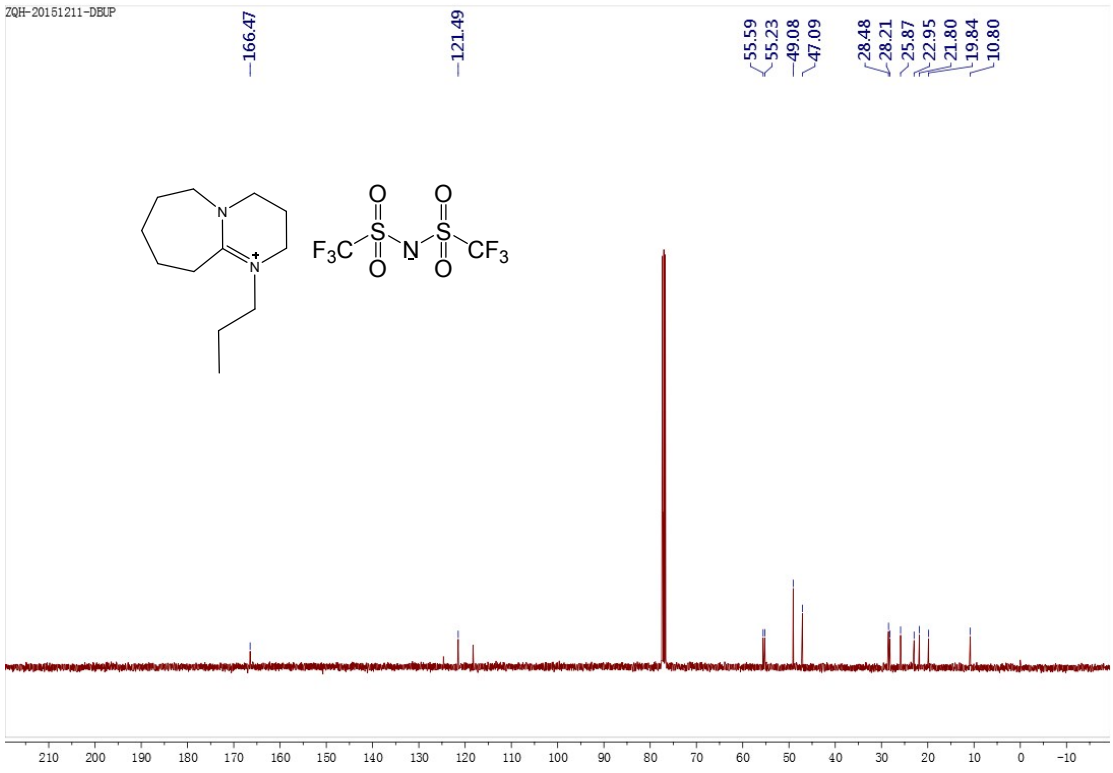

Fig. S10 ^{13}C NMR of [PrDBU][TFSI]in d^6-chloroform

3. The cyclic voltammetry scan of ionic liquids

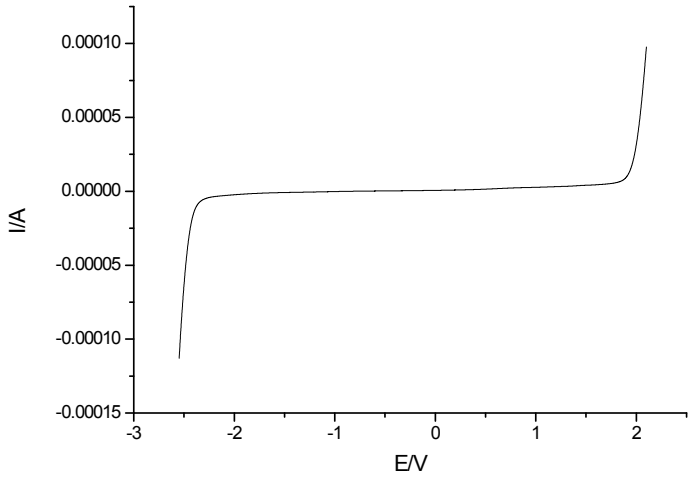

Fig. S11 The electrochemical window of [EtDBN][TFSI] at GC/Ag/Pt

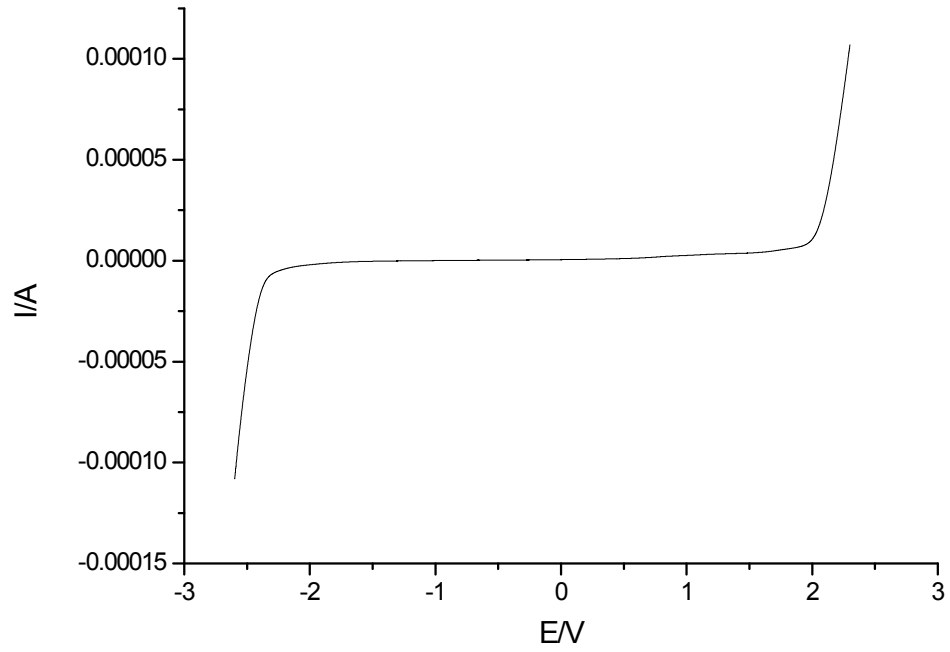

Fig. S12 The electrochemical window of [BuDBN][TFSI] at GC/Ag/Pt

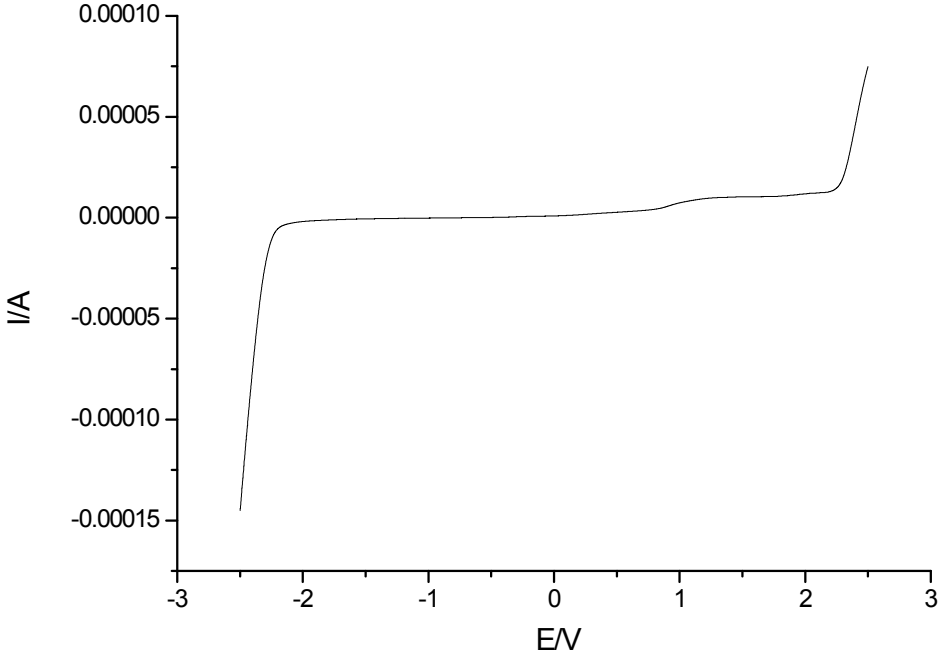

Fig. S13 The electrochemical window of [PrDBN][TFSI] at GC/Ag/Pt

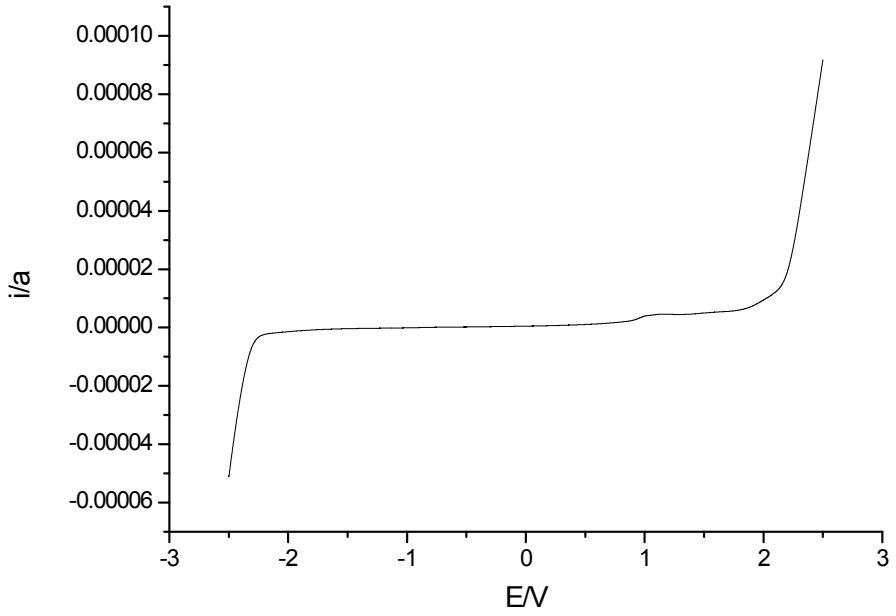

Fig. S14 The electrochemical window of [EtDBU][TFSI] at GC/Ag/Pt

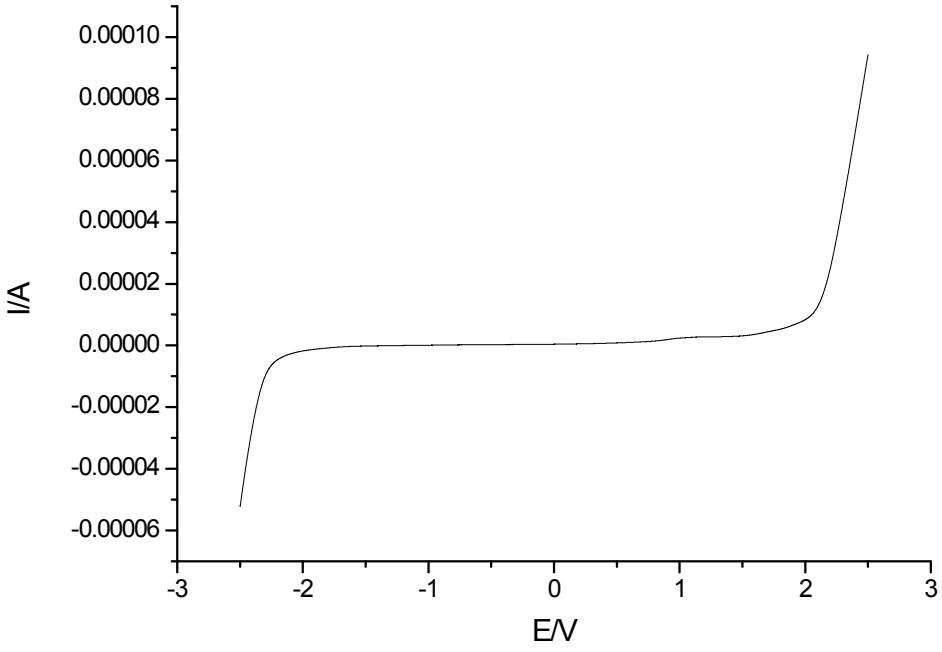

Fig. S15 The electrochemical window of [PrDBU][TFSI]at GC/Ag/Pt

4. The Specific capacitance data

Table S1 The specific capacitance of ILs

Name			Specific capacitance（F/g)
[PrDBU][TFSI]	CV(mA/g)	5	65.25
		10	42.66
		20	29.46
		50	14.39
	GCP	0.2	110.05
		0.5	57.01
		1	-----
		2	-----
[EtDBU][TFSI]	CV(mA/g)	5	54.35
		10	34.70
		20	23.37
		50	9.81
	GCP	0.2	99.17
		0.5	46.86
		1	-----
		2	-----
[PrDBN][TFSI]	CV(mA/g)	5	25.49
		10	19.59
		20	10.92
		50	4.61
	GCP	0.2	34.10
		0.5	-----
		1	-----
		2	-----
[EtDBN][TFSI]	CV(mA/g)	5	112.01
		10	101.60
		20	78.29
		50	46.71
	GCP	0.2	123.51
		0.5	98.94
		1	80.18
		2	50.18
[BuDBN][TFSI]	CV(mA/g)	5	79.89
		10	58.85
		20	44.27
		50	20.67
	GCP	0.2	92.33
		0.5	63.99
		1	36.12