

Supporting Information

Helicity: a non-conventional stereogenic element for designing inherently chiral ionic liquids for electrochemical enantiodifferentiation.

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SI.1 Electrochemical characterizations

Compound 1.

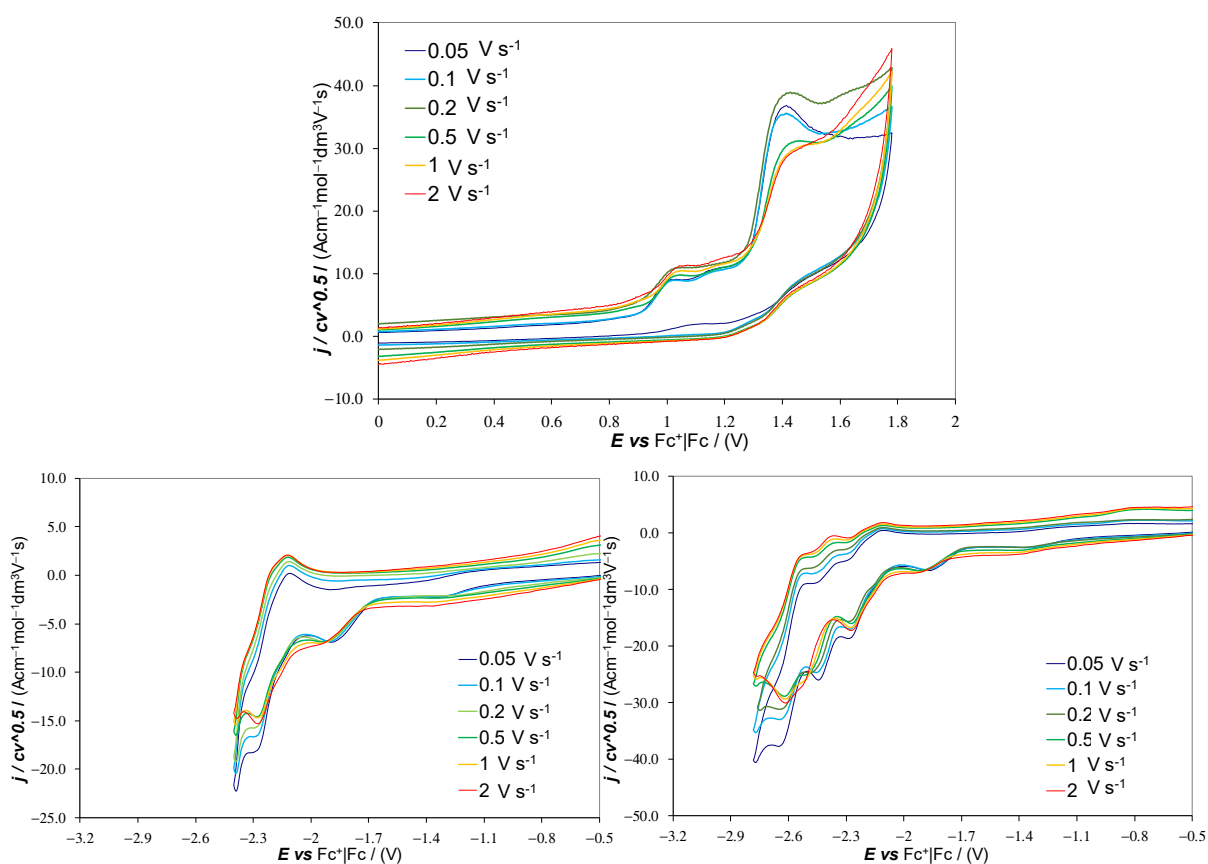


Figure S.1. Normalized CV patterns of compound **1** (0.00075 M) at scan rates in the 0.02-2 V/s range, in acetonitrile, with 0.1 M TBAPF₆ as supporting electrolyte, applying ohmic drop compensation by the positive feedback method and referring the potentials to the $\text{Fc}^+|\text{Fc}$ redox couple (the intersolvental standard recommended by IUPAC) measured in the same conditions (~ -0.39 V vs SCE).

Compound 2.

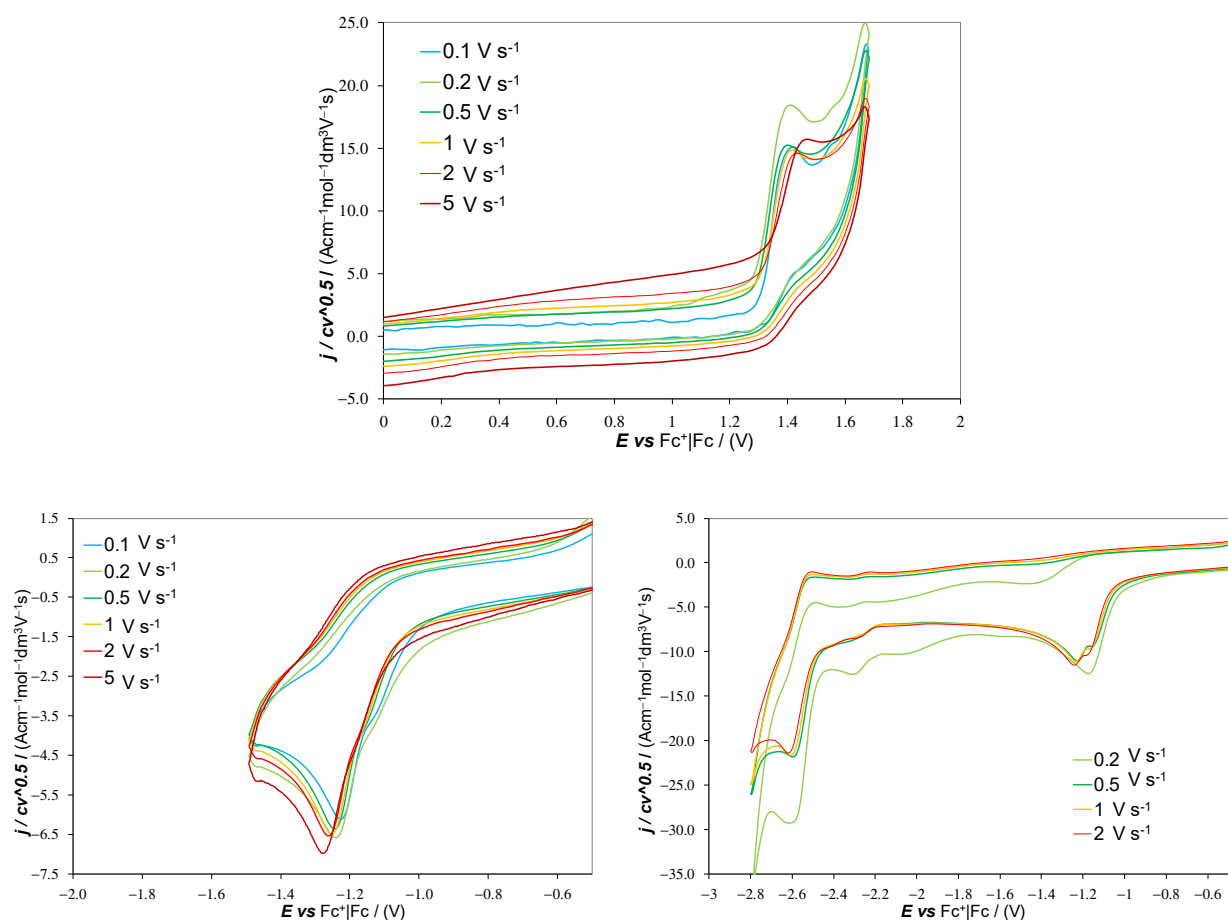


Figure S.2 Normalized CV pattern of compound 2 (0.00075 M) at scan rates in the 0.02-2 V/s range, in acetonitrile, with 0.1 M TBAPF₆ as supporting electrolyte, applying ohmic drop compensation by the positive feedback method and referring the potentials to the Fc⁺|Fc redox couple (the intersolvental standard recommended by IUPAC) measured in the same conditions (~ 0.39 V vs SCE).

SI.1.1 First reduction peak of compound 2

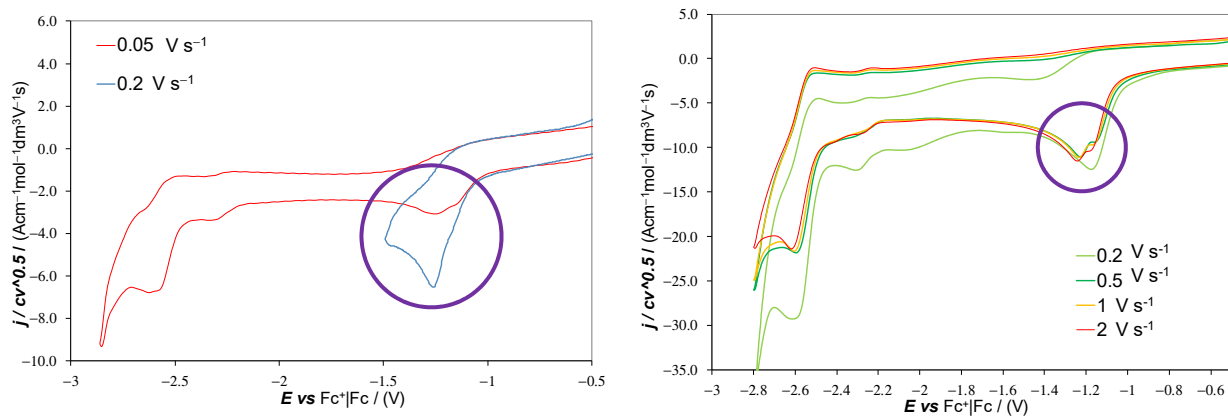


Figure S.3. The first reduction peak of **2** tending to split or to feature a preceding shoulder, confirmed in two experiments at different times and different scan rates.