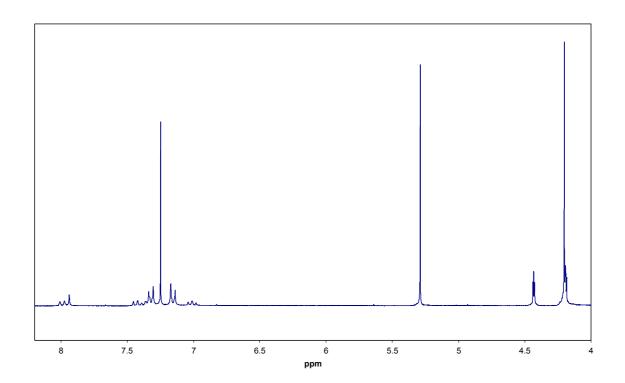
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## **Supporting information**

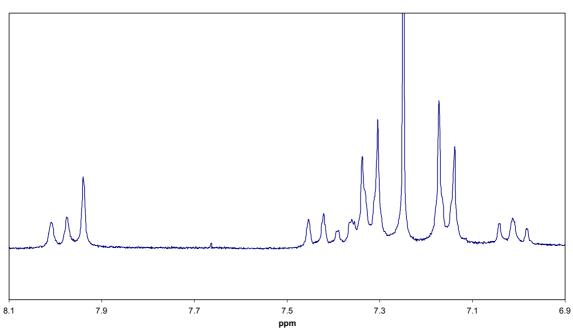
## Design and synthesis of the active part of a potential molecular motor

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<sup>1</sup>H-NMR of **3**: Full spectrum and zoom on the ferrocene region (4.1 - 4.6 ppm) and on the aromatic region (6.9 - 8.1 ppm)

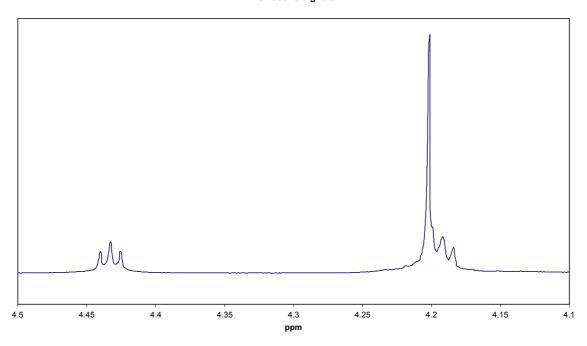


## Aromatic signals



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Ferrocene signals



Cyclic voltammetry of  $\bf 3$  (CH<sub>2</sub>Cl<sub>2</sub>,  $^n$ Bu<sub>4</sub>NPF<sub>6</sub>, Pt working and counter electrode, in V vs SCE). All waves were reversible. The sweep rate was 100 mV.s<sup>-1</sup>.

