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A Flexible Porphyrin–Annulene Hybrid: A Nonporphyrin Conformation for *meso*-Tetraaryldivacataporphyrin
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Category

Synthesis of Materials and Unnatural Products

Key words

tellurium

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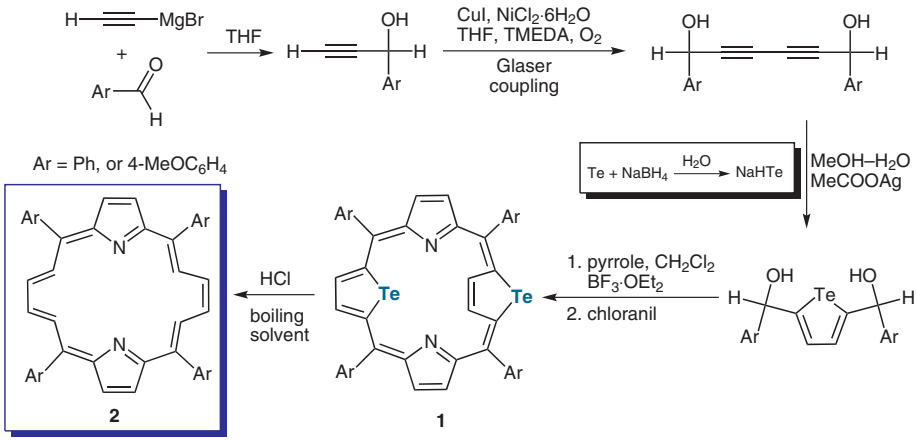
Porphyrin–Annulene Hybrid



Significance: Porphyrin–annulene hybrid molecule **2** was synthesized via the tellurium-containing macrocyclic intermediate **1**. Treatment of **1** with HCl gave **2** in a good yield, which is attributed to the facility of tellurium extrusion. The substitution of HCl by DCl led to deuterium incorporation at the β-positions of the tellurophene and the pyrrole moieties.

Comment: The hybrid molecule still possesses porphyrin-like structure and aromaticity, and the flexibility of annulene. The four periphery aryl groups are expected to contribute to the stability of **2**.

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