Supplementary Materials

(*E*)-3-(4-(Pent-4-en-1-yloxy)phenyl)acrylic acid

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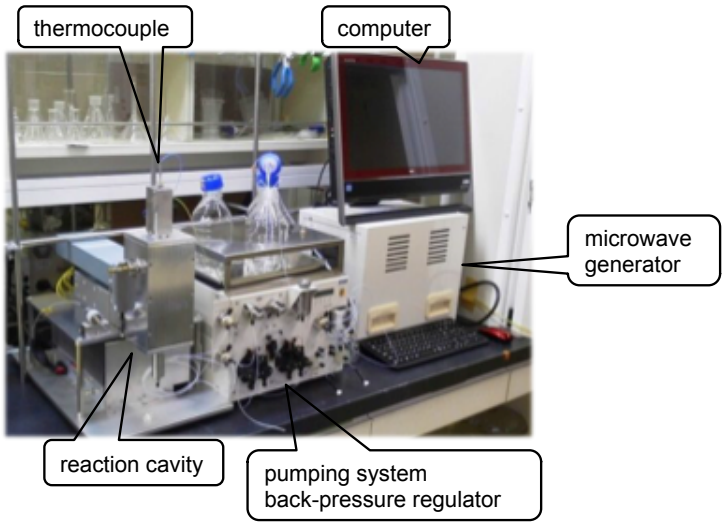
1. Flow-microwave applicator

The flow-microwave applicator used in this study consists of a microwave generator, a reaction cavity, a pumping system having a backpressure regulator, and a control device (Figure S1a). A reaction vessel, which is made with borosilicate glass with the inside volume of 6 mL, was equipped in the reaction cavity (Figure S1b). Flow rate and microwave irradiation power can be controlled by a computer. The system's maximum flow rate is 20 mL/min and maximum irradiation power is 200W. The pressure can be controlled by the backpressure regulator and the maximum pressure is set at 2.5 MPa. More detailed information regarding our flow-microwave applicator is described in reference 17 (*RSC Adv.* **2015**, *5*, 10204-20210.).

a) Flow-microwave reactor



b) Reaction vessel in the reaction cavity

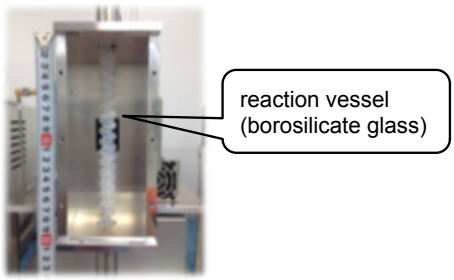


Figure S1.

2. NMR spectra of (*E*)-3-(4-(pent-4-en-1-yloxy)phenyl)acrylic acid