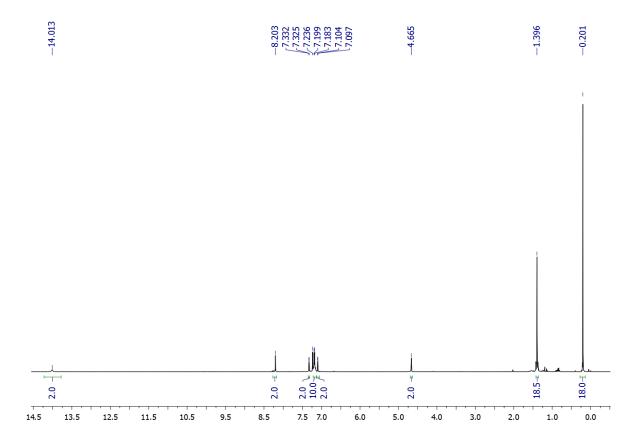
# **Support Information**

# 1. <sup>1</sup>H- and <sup>13</sup>C-NMR spectra of product 3

 $\bigcirc$  6,6'-(1*E*,1'*E*)-((1*R*,2*R*)-1,2-Diphenylethane-1,2-diyl)bis(azan-1-yl-1-ylidene)bis(methan-1-yl-1-ylidene)bis(2-*tert*-butyl-4-((trimethylsilyl)ethynyl)phenol) (**3**)

Chemical Formula:  $C_{46}H_{56}N_2O_2Si_2$ 

Figure S1. <sup>1</sup>H-NMR spectrum of 3 (300 MHz, CDCl<sub>3</sub>).



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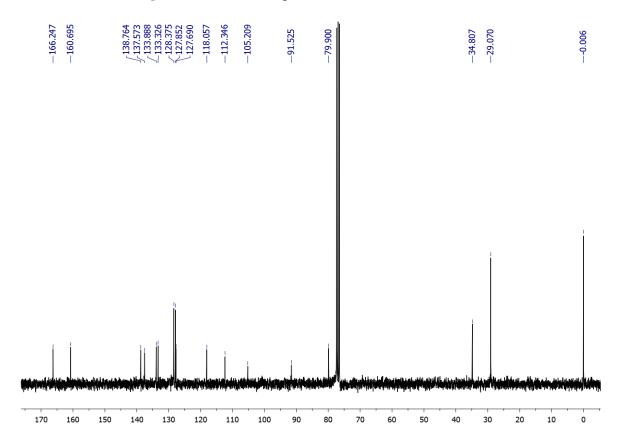


Figure S2. <sup>13</sup>C-NMR spectrum of 3 (75 MHz, CDCl<sub>3</sub>).

## 2. General procedure for grafting onto 3-mercaptopropyl silica gel

Hydrophilic 3-mercaptopropyl silica gel ( $c(SH) = 0.43 \text{ mmol g}^{-1}$ ) was prepared as described in the literature [1]. Reaction of **3** with 3-mercaptopropyl silica gel was performed, upon deprotection of TMS groups, by radical grafting following the general procedure previously described [2].

### Procedure:

- (i) To a solution of 3 (624 mg, 0.86 mmol) in THF (10 mL), was added TBAF (1.1 mL, from 1 M solution in THF) and HCl (0.9 mL, from a 1 M aqueous solution). The mixture was vigorously stirred at RT for 48 h. After this time, the reaction mixture was extracted with  $CH_2Cl_2$  (3  $\times$  20 mL), the combined organic phases were dried over sodium sulfate, filtered and the solvent evaporated to dryness. The obtained residue was used in the next step without further purification.
- (ii) 3-Mercaptopropyl silica gel (1 g) and AIBN (149 mg, 0.9 mmol) were subsequently added to a suspension of the above crude in degassed MeOH:CHCl<sub>3</sub> (15 mL; 1:1 v/v). The reaction was heated at 70 °C for 72 h. After this time, the silica was filtered, washed thoroughly with CHCl<sub>3</sub> and the resulting yellow material dried under vacuum. Under these conditions, ca. 73% of SH groups were reacted based on the Ellman's SH test [3]. The loading determined by weight difference was estimated in 0.23 mmol  $g^{-1}$ .

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#### **References and Notes**

1. Heckel, A.; Seebach, D. Preparation and characterization of TADDOLs immobilized on hydrophobic controlled-pore-glass silica gel and their use in enantioselective heterogeneous catalysis. *Chem. Eur. J.* **2002**, *8*, 559–572.

- 2. Heckel, A.; Seebach, D. Enantioselective heterogeneous epoxidation and hetero-Diels-Alder reaction with Mn- and Cr-salen complexes immobilized on silica gel by radical grafting. *Helv. Chim. Acta* **2002**, *85*, 913–926, and references therein.
- 3. Ellman, G.L. Tissue sulfhydryl groups. Arch. Biochem. Biophys. 1959, 82, 70–77.