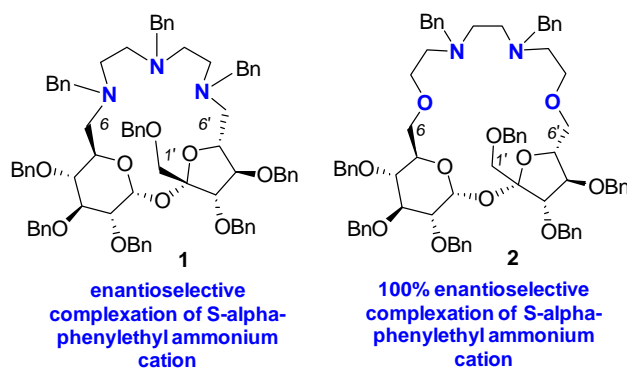


FIRST SYNTHESIS OF CRYPTANDS WITH SUCROSE SCAFFOLD

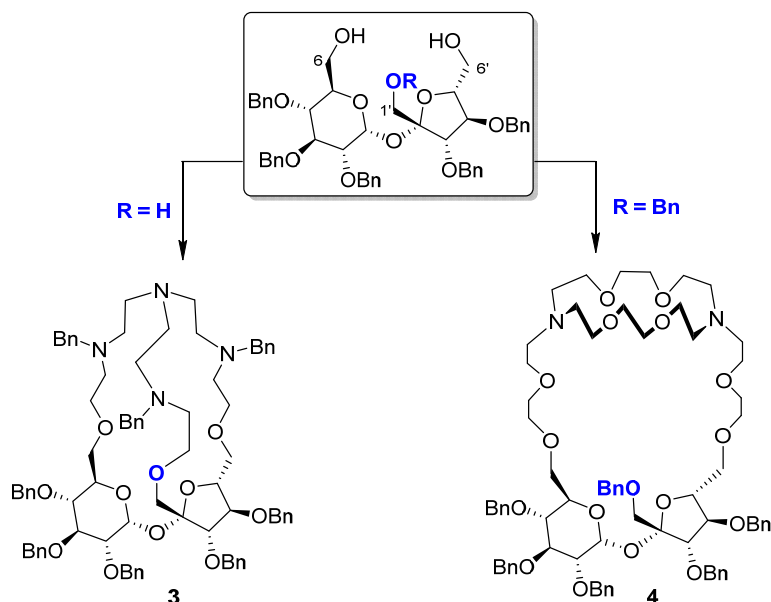
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We are engaged in the synthesis of macrocyclic derivatives with sucrose scaffold. The results obtained by us up to date indicate that sucrose can be an efficient chiral platform for the receptors able for enantioselective recognition of chiral guests. [1]



Recently we have proposed convenient methods for the synthesis of crown and aza-crown ether analogs with sucrose scaffold (*e.g.* compounds 1 and 2). We have demonstrated that such receptors have good affinity towards ammonium cations. [2] We expect, based on our previous results, that sucrose cryptands (*e.g.* compounds 3 and 4) having much more rigid structure, should possess better complexing properties towards chiral ammonium cations. [3] As is reported, cryptands have much higher affinity towards ammonium cations than the corresponding aza-crown analogs. [4]



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[3] P. Sokołowska, M. Kowalski, S. Jarosz, *Beilstein J. Org. Chem.* **2019**, *15*, 210-217.

[4] A. Späth, K. Burkhard, *Beilstein J. Org. Chem.* **2010**, *6*, 1-111.