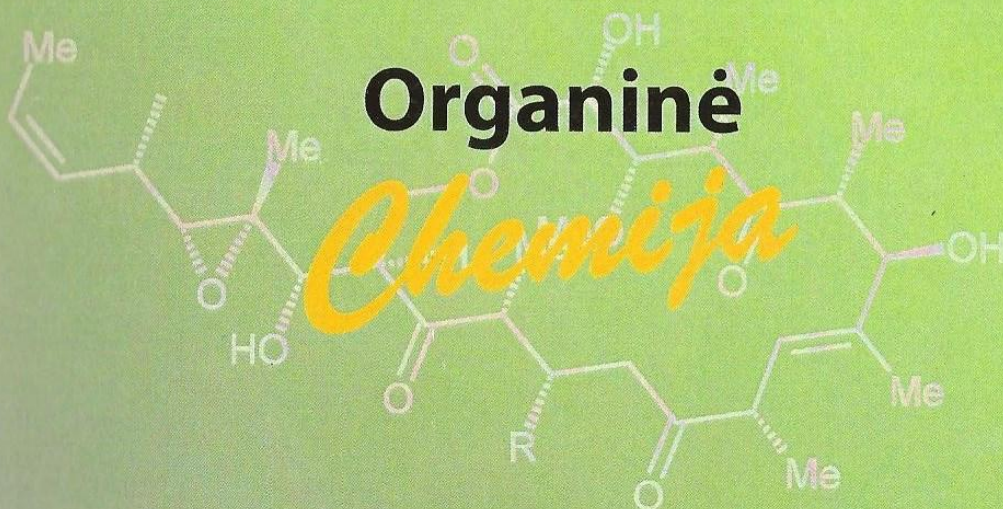


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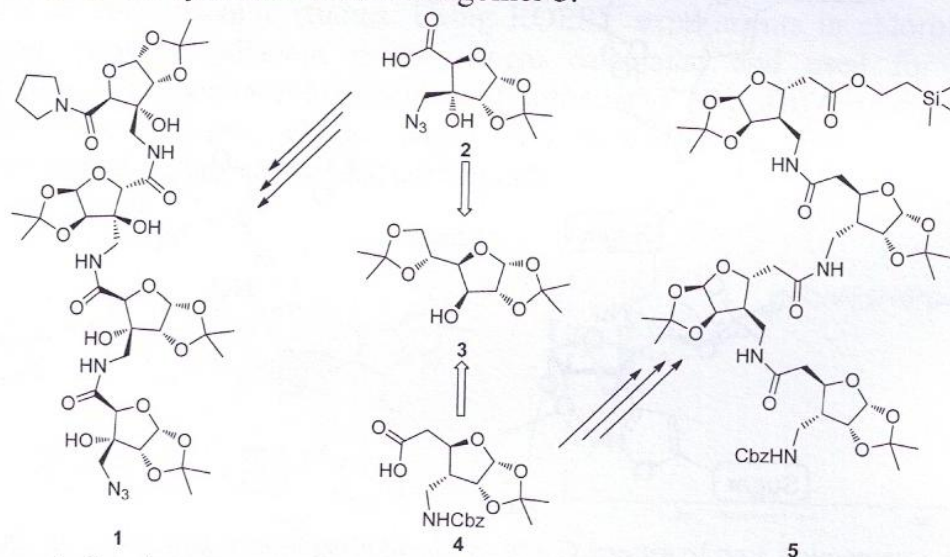
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SYNTHESIS OF LINEAR HOMOLOGOMERS FROM NOVEL FURANOID SUGAR AMINO ACIDS

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Peptides containing sugar amino acid (SAA) building blocks have been studied extensively in the area of peptidomimetics¹ and it was proven, that oligomers of SAAs frequently adopt secondary structures in relatively short sequences.² We report here syntheses of short chain homooligomers **1** and **5** built of two novel furanoid γ - and δ -SAAs **2** and **4**, respectively (Scheme 1). *Cis*- γ -azido acid **2** was synthesized via 5 step sequence starting from **3**. Homooligomer **1** was synthesized by standard solution phase peptide synthesis methods. At the same time, *trans*- δ -SAA **4** was synthesized from **3** in 11 steps and used for the synthesis of homooligomer **5**.



Scheme 1. Syntheses of carbopeptoid tetramers from common precursor.

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