

Annotation

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SYNTHESIS OF SILICON CONTAINING N-β- D GLUCOSILAMINES

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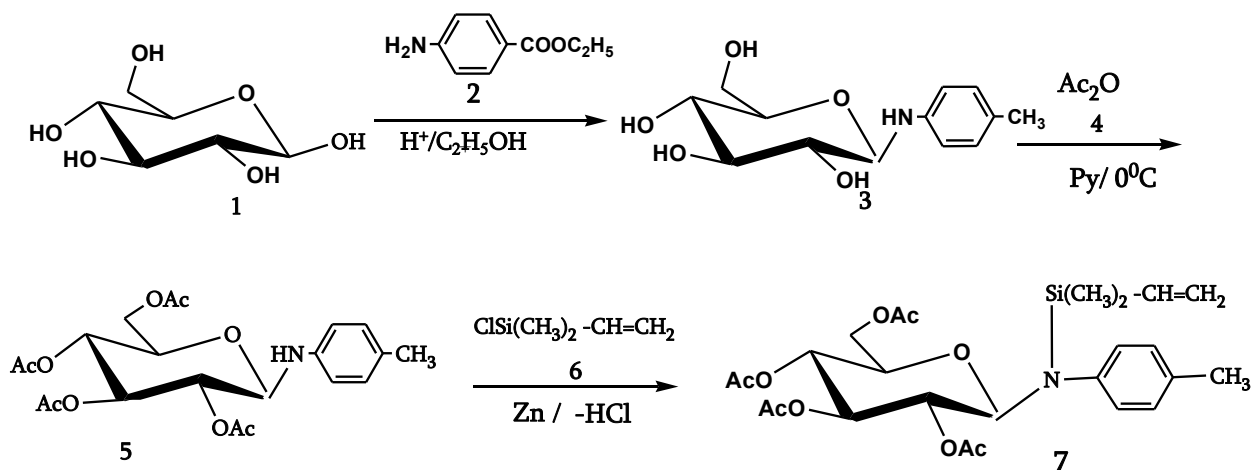
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In order to obtain biological active compounds, we have devised a new metod for synthesizing silicon containing N-glycosides. Modification of known medicinal preparations with silicon atoms can result significant changes in chemical character and biological properties.

We have studied the reaction of chlorosilylation of N-glucopyranosylamine.

N-(p-tolyl)-2,3,4,6-tetra-O-acetyl-β- D-glucopyranosilamine (2) was obtained by acetylation of N-β-(p-tolyl)-D-glucopyranosylamine (1) with acetic anhydride and pyridine. By chlorosilylation of compound (2) with trimethylchlorosilane and triphenylchlorosilane in the presence of zinc dusta at room temperature corresponding N-(p-tolyl)-N-trimethylsilyl-2,3,4,6-tetra-O-acetyl-β-D-glucopyranosilamines were synthesized for the first time. The reactions is carried out according to the following schem:



The structures of obtained compounds were established by physical-chemical methods of analysis (IR).