

## Annotation

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### Synthesis of nitroso derivative of N-β-(4-carboxyphenyl)-2,3,4,6-tetra-O-acetyl-D-glucopyranosylamine

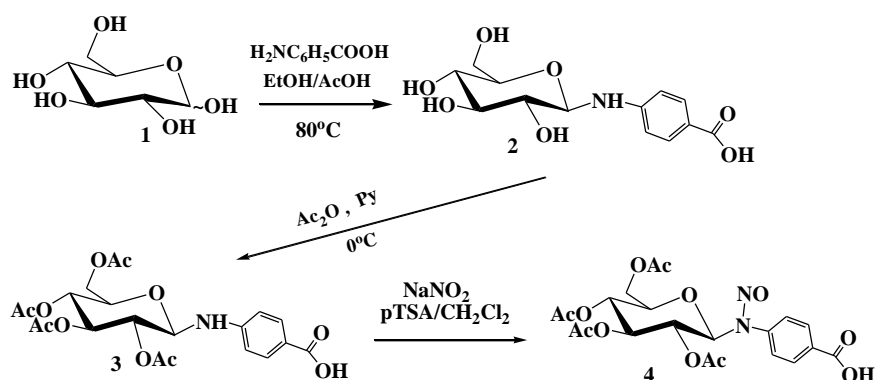
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Modification of already known biologically active compounds with compounds with different biological activity is one of the widely used methods in terms of the synthesis of new types of biologically and pharmacologically active compounds.

The goal of our work was to synthesize of N-nitroso derivatives of N-(4-carboxyphenyl)-2,3,4,6-tetra-O-acetyl-β-D-glucopyranosylamine.

N-(4-carboxyphenyl)-2,3,4,6-tetra-O-acetyl-β-D-glucopyranosylamine (3) has synthesized from D-glucose (1) and 4-aminobenzoic acid by refluxing in 96% ethanol in the presence of a glacial acetic acid catalyst and by the further acetylation of obtained N-glucosylamine. By further nitrosation of synthesized N-β-(4-carboxyphenyl)-2,3,4,6-tetra-O-acetyl-D-glucopyranosylamine, we first synthesized N-nitroso-N-β-(p-carboxyphenyl)-2,3,4,6-tetra-O-acetyl-D-glucopyranosylamine (4).



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