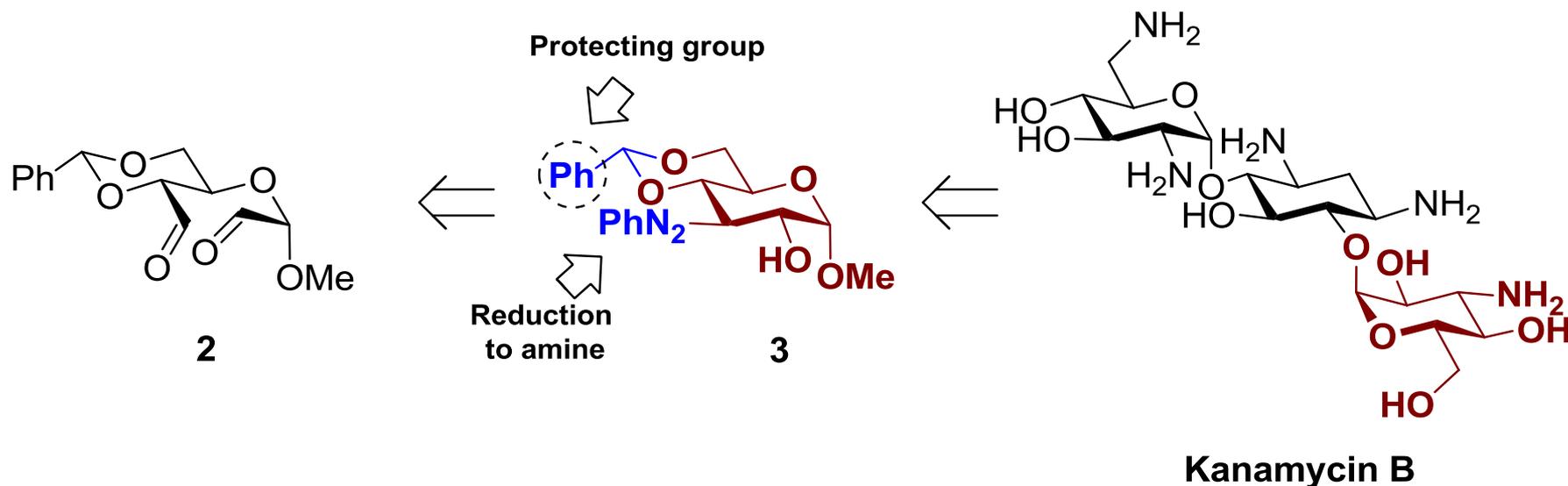


Structural studies of phenylhydrazine integration in carbohydrate derivatives

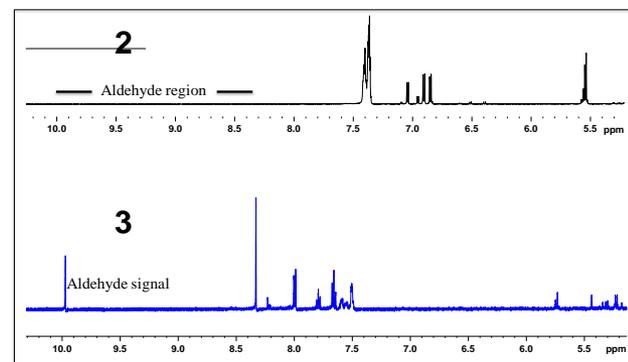
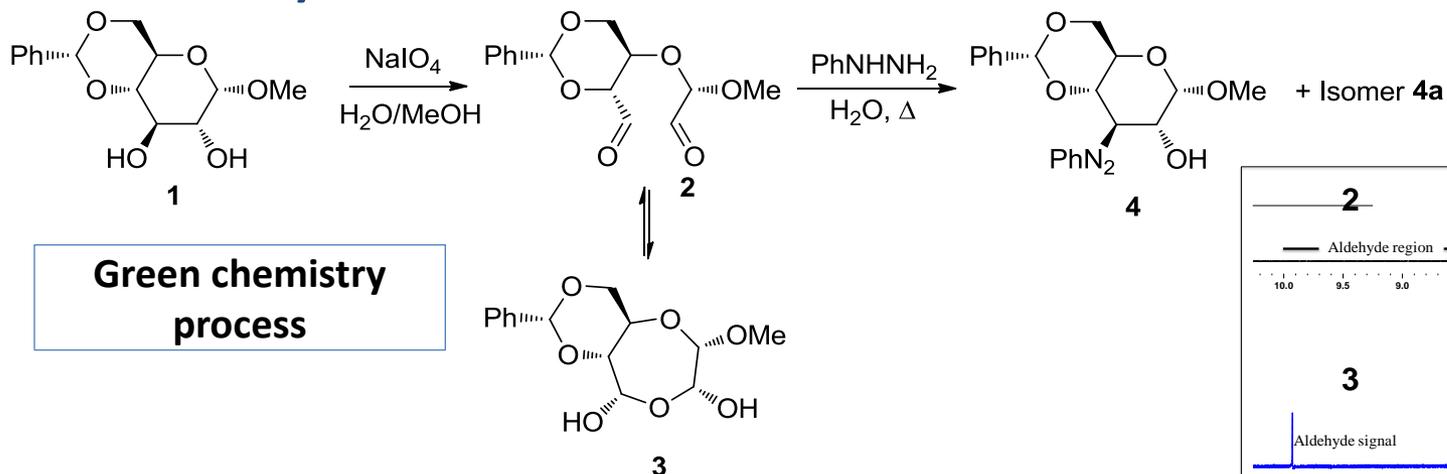
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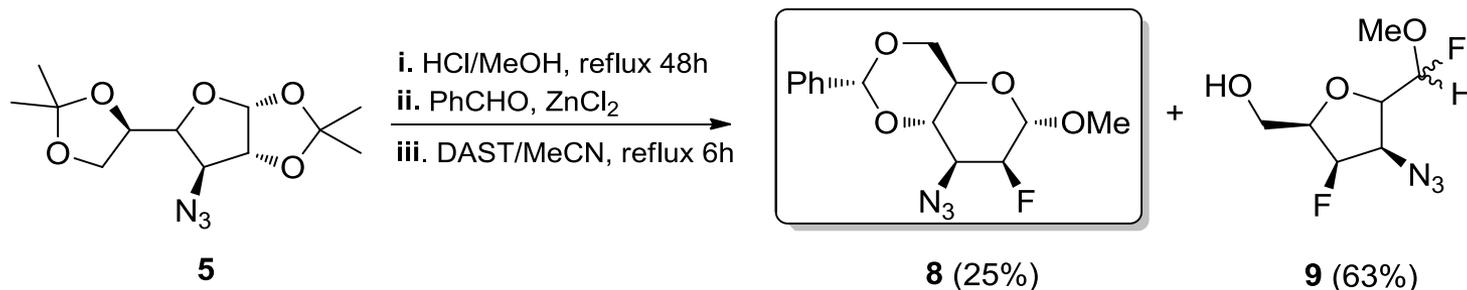


A route for the preparation of Kanamycin monomer D-Glucose has been studied by different techniques as IR or NMR. These data, have showed that an equilibrium exists between dialdehyde and hemiacetal

1. Synthetic route to obtain phenylazo derivative, as a previous step in Kanamycin monomer synthesis



2. Alternative synthetic route



The fluorination assay with DAST was carried out with **5** in MeCN under reflux conditions. The residue was evaporated and the mixture was purified with chromatography column in silica gel.¹

¹ All new compounds were characterized by their IR, ¹H-NMR (500 MHz), ¹³C-NMR (125.7 MHz), and HRMS spectral data.