

Synthesis of N-Derivatives of Anabesine

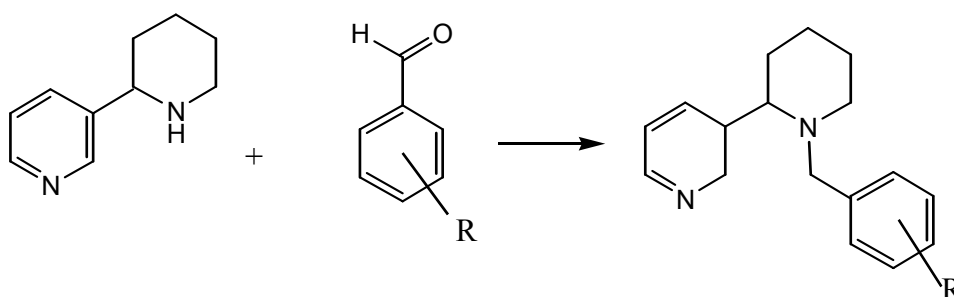
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The anabesine is main alkaloid which is contained in *Anabasis aphylla*. In view of the large pharmacological activity of anabesine it was interesting to synthesize some derivatives of anabesine. Heating of the anabesine, appropriate aldehyde and formic acid results in N-derivatives of anabesine formation:



R= Alk, AlkO, Hal, OH, NO₂, NMe₂

This anabesine derivatives represent are yellowish oil or hygroscopic substance with strong basic properties. The structures and purity of synthesized compounds were confirmed by elemental analysis, TLC, IR- and NMR-spectra.

The biological activity of anabesine N-derivatives has been shown is similar to that of anabesine, but they are considerably less toxic, than initial alkaloid.