

**A 'GREEN' APPROACH FOR AMIDE BOND FORMATION:  
SYNTHESIS OF 2,2-DIMETHYL-N-ACETYL-5-BROMO-7-  
NITROINDOLINE FOR PHOTOTRANSAMIDATION IN AN  
AQUEOUS MEDIUM**

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**Abstract**

Synthetic efforts toward developing environmentally benign chemistry (green chemistry) are becoming of great importance. This project approaches amide bond synthesis in a non-traditional manner. In the past, harsh chemicals have been required to create amide bonds. Phototransamidation may offer new environmentally friendly approach to amide bond formation under neutral reaction conditions. The photoreactive target molecule, 5-bromo-2,2-dimethyl-7-nitroindoline (DMBni) can be synthesized in a series of eight steps.