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A Facile Synthesis of New 5-Substituted Pyridine-2-carboxamide Derivatives

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ABSTRACT Various new 5-substituted pyridine-2-carboxamides were designed and synthesized using 1-[*Bis*(dimethylamino)methylene]-1*H*-1,2,3-triazolo[4,5-b]pyridinium 3-oxide hexafluorophosphate and *O*-(benzotriazol-1-yl)-*N,N,N',N'*-tetramethyluronium tetrafluoroborate as an uranium coupling agent in satisfactory yields. The present work describes a simple, rapid, and efficient synthesis of compounds **2a-2h** in good yield under mild reaction condition. Their structures were confirmed by ^{1}H-NMR, ^{13}C-NMR, and liquid chromatography–mass spectrometry.

KEYWORDS Pyridine, Carboxamides; 1-[*Bis*(dimethylamino)methylene]-1*H*-1,2,3-triazolo[4,5-b]pyridinium 3-oxide hexafluorophosphate, *O*-(benzotriazol-1yl)-*N,N,N',N'*-tetramethyluronium tetrafluoroborate.

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