

عنوان مقاله:

Investigation reaction of 1,6-dihydropyridine dicarbonitrils with indole arylbenzoiens

محل انتشار:

بیست و هفتمین کنفرانس شیمی آلی ایران (سال: 1398)

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خلاصه مقاله:

Triazole and triazine compounds containing three nitrogen atoms in the five and six-membered aromatic azole ring are readily able to bind with a variety of enzymes and receptors in biological system via diverse non-covalent interactions, and thus display versatile biological activities. The related researches in triazole and triazine-based derivatives as medicinal drugs have been an extremely active topic, and numerous excellent achievements have been acquired. 1α -(Indol-3-yl) carbonyl compounds are relevant precursors for the preparation of biologically active molecules such as tryptamines, β carbolines, carbazoles, and tryptophols, which are found in several natural sources and are useful intermediates in the synthesis of some biologically active compounds.²In this research we investigated reaction of 1,6-diamino-4-aryl-2-oxo-1,2-dihydropyridine-3,5-dicarbonitrile with indole aryl benzoein derivatives. Indole arylbenzoein 1 was reacted with 1,6-diamino-4-aryl-2-oxo-1,2-dihydropyridine-3,5-dicarbonitrile 2 in ethanol under reflux conditions (24-48 hrs) and produced spiro-triazol triazine 3. The structure of products were identified by $^1\text{H-NMR}$, $^{13}\text{C-NMR}$ and IR spectroscopy techniques.

کلمات کلیدی:

Indole arylbenzoein, 1,6-Dihydropyridine dicarbonitrils

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