Sintesis hibrida DHP-Triazol dan DHP-Triazol-chalcone melalui variasi azido aromatik dan aledehida aromatik = Synthesis of DHP-Triazole and DHP-Triazole-Chalcone hybrids via variations of azido aromatic and aromatic aldehyde

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Abstrak

Sebagai senyawa N-heterosiklik, 1,4-Dihidropiridin dan 1,2,3-Triazol merupakan senyawa aktif biologis dan farmakologis. Senyawa 1,2,3-triazol memiliki kegunaan seperti antioksidan dan antituberkulosis. Dilakukannya sikloadisi-alkuna antara 1,4-dihidropiridin dan 1,2,3-Triazol pada penelitian ini. Selain itu, Penelitian ini juga berfokus pada variasi precursor yang beragam. Tiga prekursor azida aromatik digunakan untuk sintesis 1,4- dihidropiridin dan tiga prekursor aromatik aldehid untuk sintesis 1,4-dihidropiridin hibrida chalcone. Pada sintesis 1,4-DHP bermotif 1,2,3-triazol terdapat reaksi propargil, kondensasi Hantzch dan Sikloadisi-alkuna. Pada sintesis 1,4-DHP bermotif Chalcone akan dilanjutkan dengan Kondensasi Claisen Schmidt.

.....As N-heterocyclic compounds, 1,4-Dihydropyridine and 1,2,3-Triazole are biologically and pharmacologically active compounds. 1,2,3-triazole compounds have uses such as antioxidant and antituberculosis. The alkyne-cycloaddition between 1,4-dihydropyridine and 1,2,3-Triazole was carried out in this study. In addition, this study also focuses on the variety of precursors. Three aromatik azide precursors were used for the synthesis of 1,4- dihydropyridine and three aromatik aldehyde precursors for the synthesis of 1,4- dihydropyridine hybrid chalcone. In the synthesis of 1,4-DHP patterned 1,2,3-triazole, there are propargyl, Hantzch condensation and Cycloaddition-alkynone reactions. The synthesis of chalcone-patterned 1,4-DHP will be followed by Claisen Schmidt condensation.