

Synthesis of peptides containing (S)-2-amino-3-[4-allyl-(3-pyridine-4`-yl)- and (3-pyridine-3`-yl)-5-thioxo-1,2,4-triazol-1-yl]-propionic acids

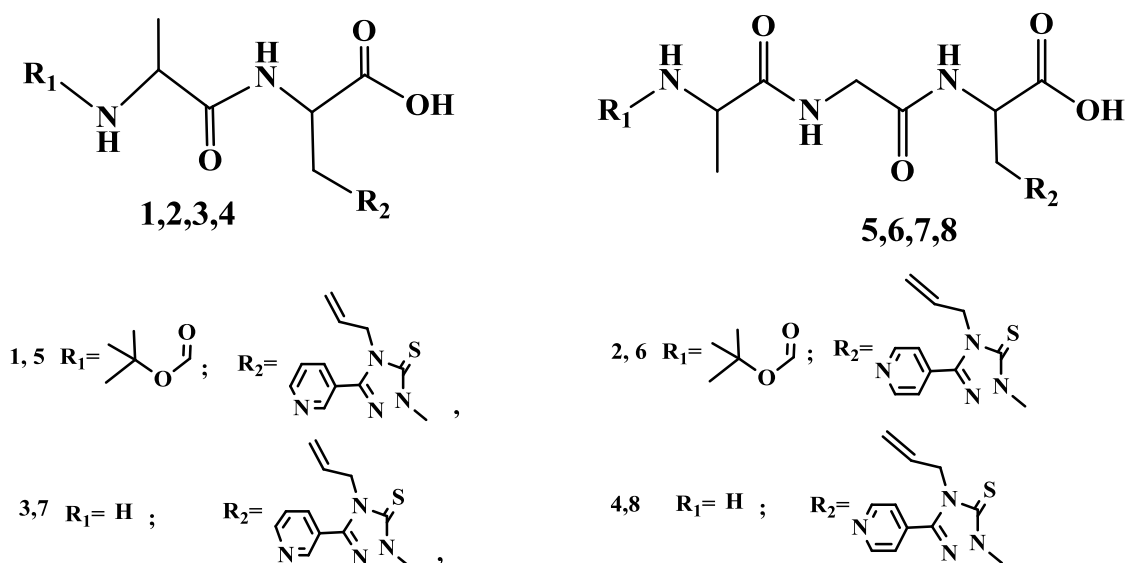
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New di- and tripeptides containing (S)-2-amino-3-[4-allyl-(3-pyridin-4`-yl)- and (S)-2-amino-3-[4-allyl-3-pyridin-3`-yl)-5-thioxo-1,2,4-triazol-1-yl]propionic acids were synthesized by the method of activated esters. BOC-(S)-alanine was used as N-protected amino acid [1,2].

Deblocking of the synthesized peptides was carried out with 4N HCl in dry dioxane.

Figure 1. N-tretbutoxycarbonyl-(S)-alanyldi- and tripeptides



NMR spectroscopy showed lack of racemization process in the course of peptides synthesis.

- [1]. G.W. Anderson, J.E. Zimmerman, F.M. Callahan (1964). The Use of Esters of N-Hydroxy-succinimide in peptide Synthesis. *J. Am. Chem. Soc.* 86, issue. 9, 1839–1842.
[2]. A.S. Saghyan, H.M. Simonyan, K.V. Hakobyan, A.G. Tovmasyan, A.V. Geolchanyan, V.T. Ghochikyan (2009). Asymmetric synthesis of heterocyclic substituted (S)-β-[4-allyl-3-(pyridin-3 or 4-yl)-5-thioxo-1,2,4-triazol-1-yl]-α-alanines. *Chemical Journal of Armenia* 62, № 3-4, 362-368.