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Synthesis and anticholinesterase effects of new 2-substituted benzothiazole derivatives

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The cholinesterase inhibitors have reached a great deal of interest Alzheimer's disease (AD) in recent years due to their enhancer effect on levels of acetylcholine (ACh) in cholinergic neurons of patient with AD. Enhancement of ACh neurotransmission in the remaining cholinergic neurons would be expected to stabilize the disease symptomatically. Benzothiazole, a heterocyclic ring, is often subjected to various drug discovery studies. Some clinically available drugs carrying this ring system are used in the management of several central nervous system (CNS) diseases. In the present study a new series of 2-substituted benzothiazole derivatives were designed and synthesized to examine probable anticholinesterase activity. Effects of the compounds on acetylcholinesterase enzyme were investigated by Ellman's colorimetric method. Enzymatic activity studies indicated that some of the compounds possess comparable anticholinesterase activity with standard drug donepezil.

Biography

Ümide Demir Ozkay has completed her PhD from Anadolu University Faculty of Pharmacy, Department of Pharmacology. She received Associate Professor Degree in 2014. She has published more than 20 papers in reputed journals. Central Nervous System related drugs constitute her main research area.

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