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## Synthesis and Antinociceptive Activity of 2-[(2-Oxobenzothiazolin-3-yl)methyl]-5-aminoalkyl/aryl-1,3,4-thiadiazole

Tijen ÖNKOL, Bilge ÇAKIR, M. Fethi ŞAHİN  
Gazi University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry,  
06330-Etiler, Ankara-TURKEY  
e-mail: mfsahin@gazi.edu.tr  
Engin YILDIRIM, Kevser EROL  
Osmangazi University, Faculty of Medicine, Department of Pharmacology,  
Eskişehir-TURKEY

**Abstract:** Ten 2-[(2-oxobenzothiazolin-3-yl)methyl]-5-aminoalkyl/aryl-1,3,4-thiadiazole derivatives were synthesized. The chemical structures of these compounds were elucidated by their FT-IR and <sup>1</sup>H-NMR spectral data, as well as their elemental analyses. The compounds were tested for antinociceptive activity. Among these compounds, 2-[(2-oxobenzothiazolin-3-yl)methyl]-5-aminomethyl-1,3,4-thiadiazole (5a) was found to be significantly more active than the others and the standards in all the tests.

**Key Words:** 2-Oxobenzothiazoline, 1,3,4-thiadiazole, antinociceptive activity

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