SYNTHESIS OF ISOMERIC AMINO-THIAZOLO[1,2,4]TRIAZOLE, AMINO-[1,2,4]TRIAZOLO[1,3]THIAZINE AND –[1,3]THIAZEPINE DERIVATIVES

Ibolya Prauda, László Pongó and József Reiter

EGIS Pharmaceuticals Ltd., Chemical Research Division
P. O. Box 100, H-1475 Budapest, Hungary

Previously no general method was known for the synthesis of isomeric amino-1,2,4-triazoles condensed with thiazole, thiazine and thiazepine rings (1a-c and 2a-c). To achieve this aim we decided to study the reaction of 5-amino-2,3-dihydro-1H-1,2,4-triazol-3-thione (3) with α,ω-dibromoalkanes (4a-c).

The intermediates of these reactions were the 5-amino-3-(ω-bromoalkythio)-1H-1,2,4-triazoles (5a-c), which could either be isolated or ring closed depending on the reaction conditions to type 1 and 2 isomers. Derivatives 1c (n = 4) and 2c (n = 4) represent two new ring systems.