

SYNTHESIS AND BIOLOGICAL ACTIVITY OF NOVEL PYRIMIDINE DERIVATIVES

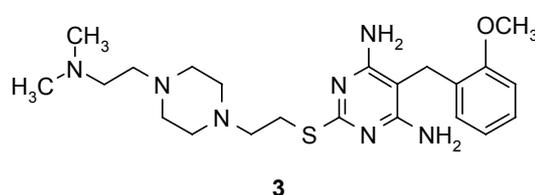
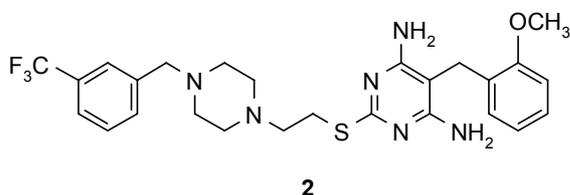
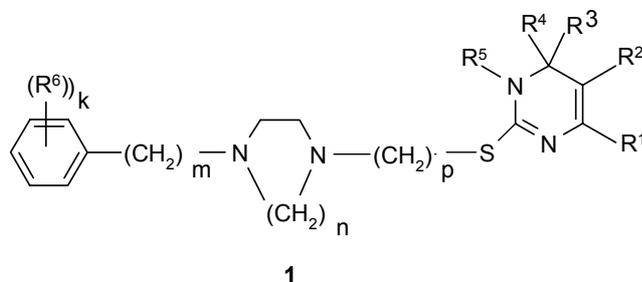
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As a part of our research program new pyrimidine derivatives were synthesized **1**. These compounds were found to have high affinity for the 5-HT_{2C} receptors and some of them proved to be selective over 5-HT_{2A} receptors [1]. From our structure – activity relationship studies EGIS-8465, **2** was selected for further evaluation.



The very low bioavailability in rats indicated high first pass metabolism of the compound. So we synthesized its analogues to avoid the enzymatic degradation. Among these molecules the “dimethyl-amino-alkyl” derivative **3** was the most effective in anxiolytic tests [2]. Synthesis and pharmacological results will be presented.

[1] WO 97/16429 patent application

[2] WO 01/00617 patent application