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Derivatives of thieno[3,2-d]pyrimidines are interesting not only as heterocyclic systems, but also as compounds with high biological activity [1-3]. We have developed methods for obtaining amino derivatives of cyclopenta[4',5']pyrimido[3',2':4,5]thieno[3,2-d]pyrimidines these compounds were synthesized starting with 4-morpholino-2,3,7,8-tetrahydro-1H-cyclopenta[4',5']pyrimido[3',2':4,5]thieno[3,2-d]pyrimidin-7-ones [4]. By reacting the latter with phosphorous oxychloride was synthesized corresponding chloro derivatives which, under the action of various of amines conversion into the amino derivatives of cyclopenta[4',5']pyrimido[3',2':4,5]thieno[3,2-d]pyrimidines. The anticonvulsant and prognostic anxiolytic activities of the new amino derivatives cyclopenta[4',5']pyrimido[3',2':4,5]thieno[3,2-d]pyrimidines are investigated. In the latter are discovered the mean anticorazole properties which are not accompanied by the sedative and myorelaxatives phenomena. The comprehensive research of this compounds it was desirable.

![Chemical Structure]

R₁ = R₂ = H, alk, cycloalk.

1. Е. Г. Пароникян, А. С. Норавян, Ш. Ф. Акопян, и др., Хим.-фарм. ж., 41(9), 14, 2007.