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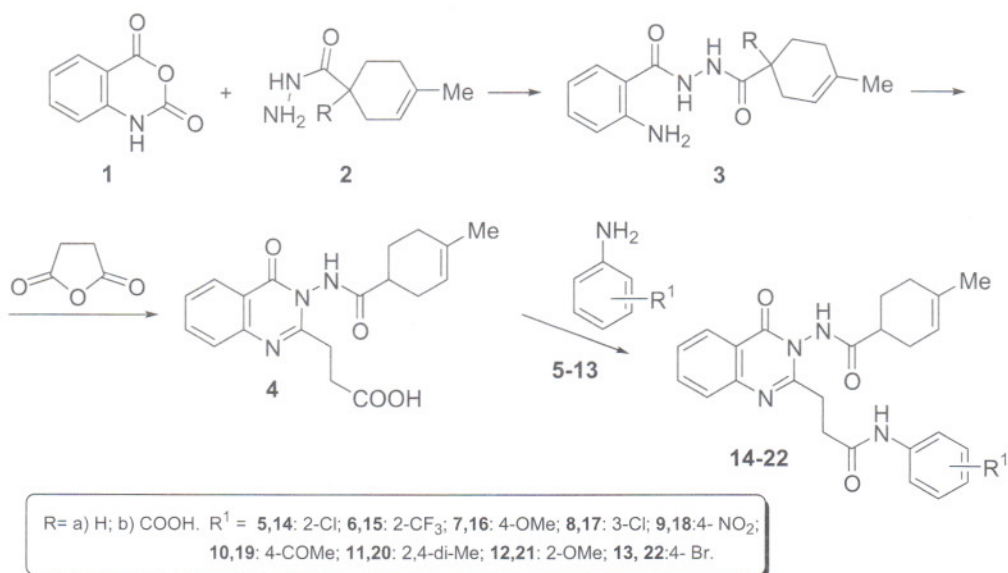
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SYNTHESIS OF ANILIDES OF 3-ACYLAMINO-4-OXO-3,4-DIHYDROQUINAZOLINE-2-PROPIONIC ACID

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Certain anilides of oxo-1,2-dihydroquinazoline-3-carboxylic acid are known to be biologically active and may be used as diuretics [1]. Considering these facts as well as our strong background in quinazoline chemistry and current research interest in searching for compounds with valuable properties we report herein on the synthesis of anilides of 3-{[(4-methylcyclohexene carbonyl)-amino]-4-oxo-3,4-dihydroquinazoline}-2-propionic (**14-22**) acid from 3-acylamino-4-oxo-3,4-dihydroquinazoline-2-propionic acid (**4**) and the corresponding aniline (**5-13**) as outlined in a scheme.



The key step for the formation of compounds **14-22** was carried out by the mixed anhydride method. The quinazoline derivative **4** was synthesised by condensation of compound **2** with isatoic anhydride (**1**) [2], subsequent treatment with succinic anhydride and decarboxylation of carboxylic group R.

References:

- 1) I.V.Ukrainets, N.L.Bereznyakova, V.A.Parshikov, U.N.Kravchenko, *Khim. Geterotsikl. Soedin.*, 78 (2008); [*Chem. Heterocycl. Comp.*, 64 (2008)].
- 2) D.Zicane, I.Ravina, Z.Tetere, M.Petrova. *Khim. Geterotsikl. Soedin.*, 894 (2007); [*Chem. Heterocycl. Comp.*, 755 (2007)].