

1-(ethoxycarbonylmethyl)-3-(1'-tolyl-3'-(ethoxycarbonyl)5'-hydroxypyrazolyl)-2-oxo quinoxaline

Souad Ferfra, Nouredine H. Ahabchane, El Mokhtar Essassi*

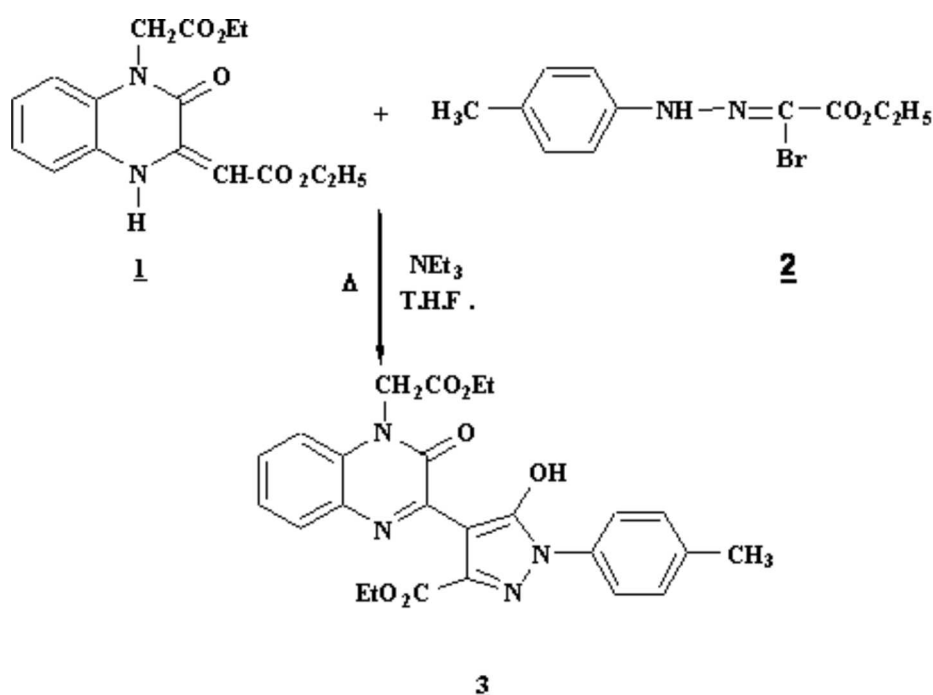
Laboratoire de Chimie Organique Hétérocyclique, Faculté des Sciences, BP 1014, Avenue Ibn Batouta, Rabat, Maroc

e-mail: emessassi@yahoo.fr

*Author to whom correspondence should be addressed

Received: 13 February 2006 / Accepted: 18 February 2006 / Published: 28 February 2006

Keywords: cyclocondensations, quinoxaline, hydrazoneyl bromide



To a solution of hydrazoneyl bromide (5.70 g, 0.02 mol) **2** and **1** [**1**] (3.18 g, 0.01 mol) in tetrahydrofuran (60 ml) was added triethylamine (2.02 g, 0.02 mol in 10 ml of THF). The reaction mixture was refluxed for 48 hours. The solvent was evaporated under reduced pressure and the resulting crude material was chromatographed over silica gel column using 10:90 ethylacetate:hexane as eluent (yield 70%).

Melting point: 182-184°C

IR (KBr, cm⁻¹): 1640 (ν_{N-C=O}); 1720 (ν_{N-C=O}).

¹H-NMR (250 MHz, CDCl₃): δ = 7.81-7.04 (8H, m, H_{arom}); 5.02 (2H, s, NCH₂); 4.44 (2H, q, J = 7 Hz, CH₂); 4.25 (2H, q, J = 7 Hz, CH₂); 2.36 (3H, s, CH₃-Φ); 1.37 (3H, t, J = 7 Hz, CH₃); 1.27 (3H, t, J = 7 Hz, CH₃).

¹³C-NMR (250 MHz, CDCl₃): δ = 166.5 (Cq); 164.2 (Cq); 161.6 (Cq); 154.5 (Cq); 143.8 (Cq); 143.4 (Cq); 135.9 (Cq); 135.5 (Cq); 129.4 (CH_{ar}); 129.1 (CH_{ar}); 129.1 (Cq); 127.8 (CH_{ar}); 126.8 (Cq); 125.3 (CH_{ar}); 122.0 (CH_{ar}); 120.7 (CH_{ar}); 114.0 (CH_{ar}); 96 (C₄); 62.3 (CH₂); 61.7 (CH₂); 44.2 (NCH₂); 21.0 (Φ-CH₃); 14.2 (CH₃).

MS (IE): 476

Reference

1. Ferfra, S. Ahabchane N.H., Essassi, E. M.; *Molecules*, submitted

Sample Availability: Available from MDPI.

© 2006 [MDPI](http://www.mdpi.org). All rights reserved.