Electronic Supplementary Information

Palladium-Catalyzed Coupling of 3-Chloro-Quinoxalinones With Various Nitrogen-Containing Nucleophiles

Etienne Brachet,^[a] Jean-François Peyrat,^[a] Jean-Daniel Brion^[a] Samir Messaoudi,^{*[a]} and Mouad Alami^{*[a]}

^aUniv Paris-Sud, CNRS, BioCIS-UMR 8076, LabEx LERMIT, Laboratoire de Chimie Thérapeutique, Faculté de Pharmacie, 5 rue J.-B. Clément, Châtenay-Malabry, 92296 (France)

samir.messaoudi@u-psud.fr, mouad.alami@u-psud.fr

Contents

General experimental methods	page 2
NMR Spectra of 3- <i>N</i> -substituted quinoxalinones 3a-u	page 3-22
NMR Spectra of cannabinoid CB2 receptor agonist (C)	page 23

General experimental methods

All reactions were conducted under an argon atmosphere. Solvents: cyclohexane, ethyl acetate (EtOAc), methylene chloride (CH₂Cl₂), methanol (MeOH) for extraction and chromatography were technical grade. Tetrahydrofuran (THF) was distilled under argon from sodium-benzophenone ketyl. **Instrumentation**

The compounds were all identified by usual physical methods, i.e. ¹H-NMR, ¹³C-NMR, IR, elemental analysis. ¹H and ¹³C NMR spectra were measured in CDCl₃ or DMSO-d₆ on a 300 MHz spectrometer. ¹H chemical shifts are reported in ppm from an internal standard TMS or of residual chloroform (7.27 ppm). The following abreviation are used: m (multiplet), s (singlet), br s (broad singlet), d (doublet), t (triplet) dd (doublet of doublet), td (triplet of doublet), q (quadruplet), quint (quintuplet). ¹³C chemical shifts are reported in ppm from the central peak of deuteriochloroform (77.14). IR spectra were acquired on a FT-IR and are reported in wave numbers (cm⁻¹). Elemental analyses were performed with a Perkin-Elmer 240 analyser. R_f values refer to TLC on 0.25 mm silica gel plates (60-F₂₅₄). Flash chromatography was performed on silica gel 60 (0.040-0.063 mm). Melting points (m.p.) were determined on a capillary melting point apparatus and were uncorrected. Amides, lactams, carbamates and NH-containing azoles are commercially available compounds.









































