

Title:

Differential effects of the 5-HT_{1A} receptor inverse agonists Rec 27/0224 and Rec 27/0074 on electrophysiological responses to 5-HT_{1A} receptor activation in rat dorsal raphe nucleus and hippocampus *in vitro*.

Authors:

Renato Corradetti, Boris Mlinar, Chiara Falsini, Anna Maria Pugliese, Antonio Cilia, Carla Destefani, Rodolfo Testa

Addresses:

Dipartimento di Farmacologia Preclinica e Clinica 'Mario Aiazzi-Mancini', Università di Firenze, V.le G. Pieraccini 6, 50139 Firenze, Italy (R. C., B. M., C. F., A. M. P.)

Pharmaceutical R&D Division - Recordati S.p.A., Via Civitali 1, 20148 Milan, Italy (A. C., C. D., R. T.)

Running title: Differential antagonism by 5-HT_{1A} receptor inverse agonists

Author for correspondence:

Renato Corradetti, Dipartimento di Farmacologia Preclinica e Clinica 'Mario Aiazzi-Mancini', Università di Firenze, V.le G. Pieraccini 6, 50139 Firenze, Italy

Tel: +39-055-4271246, Fax: +39-055-4271280, e-mail: corradet@unifi.it

N° of text pages	34
N° of tables	1
N° of figures	5
N° of references	37

Words:

Abstract	249
Introduction	664
Discussion	1392

Abbreviations: 5-CT, 5-Carboxamidoytryptamine; 8-OH-DPAT, 8-Hydroxy-dipropylaminotetralin; DRN, dorsal raphe nucleus; GPCR, G-protein coupled receptor; GTP γ S, Guanosine 5'-O-(3-thiotriphosphate); Rec 15/3079, N-{2-[4-(2-Methoxyphenyl)-1-piperazinyl]ethyl}-N-(2-nitrophenyl) cyclohexanecarboxamide ; Rec 27/0074, Cyclohexanecarboxylic acid (2-methoxy-phenyl)-{2-[4-(2-methoxyphenyl)-piperazin-1-yl]ethyl}amide; Rec 27/0224, Cyclohexanecarboxylic acid {2-[4-(2-bromo-5-methoxybenzyl)piperazin-1-yl]ethyl}-(2-trifluoromethoxyphenyl)amide; R_{in}, input resistance; r.m.p., resting membrane potential; SSRI, selective serotonin re-uptake inhibitor; WAY 100635, N-{2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl}-N-2-pyridinylcyclohexanecarboxamide; V_m, membrane potential; CHO, Chinese hamster ovary; aCSF, artificial cerebrospinal fluid

Recommended section : Neuropharmacology

