

Title (en)
ALPHA 1a ADRENERGIC RECEPTOR ANTAGONISTS

Title (de)
ALPHA 1a ADRENERGISCHE REZEPTORANTAGONISTEN

Title (fr)
ANTAGONISTES DU RECEPTEUR ADRENERGIQUE ALPHA 1a

Publication
EP 0831824 A4 20010502 (EN)

Application
EP 96919056 A 19960604

Priority
• US 9608672 W 19960604
• US 47016495 A 19950606

Abstract (en)
[origin: WO9639140A1] This invention relates to certain novel compounds and derivatives thereof, their synthesis, and their use as selective alpha 1a adrenergic receptor antagonists. One application of these compounds is in the treatment of benign prostatic hyperplasia. These compounds are selective in their ability to relax smooth muscle tissue enriched in the alpha 1a receptor subtype without at the same time inducing hypotension. One such tissue is found surrounding the urethral lining. Therefore, one utility of the instant compounds is to provide acute relief to males suffering from benign prostatic hyperplasia, by permitting less hindered urine flow. Another utility of the instant compounds is provided by combination with a human 5-alpha reductase inhibitory compound, such that both acute and chronic relief from the effects of benign prostatic hyperplasia are achieved.

IPC 1-7
A61K 31/445; C07D 491/107

IPC 8 full level
A61K 31/438 (2006.01); **A61K 31/444** (2006.01); **A61K 45/00** (2006.01); **A61P 5/24** (2006.01); **A61P 13/02** (2006.01); **A61P 13/08** (2006.01); **A61P 43/00** (2006.01); **C07D 491/10** (2006.01); **C07D 491/107** (2006.01)

CPC (source: EP)
A61P 5/24 (2017.12); **A61P 13/02** (2017.12); **A61P 13/08** (2017.12); **A61P 43/00** (2017.12); **C07D 491/10** (2013.01)

Citation (search report)
• [A] WO 9410989 A1 19940526 - SYNAPTIC PHARMA CORP [US], et al
• [A] US 5206240 A 19930427 - BALDWIN JOHN J [US], et al
• [A] WO 9418204 A1 19940818 - MERCK & CO INC [US], et al
• [X] YAMATO M ET AL: "SYNTHESIS AND STRUCTURE-ACTIVITY RELATIONSHIP OF SPIRO UISOCHROMANPIPERIDINE ANALOGS FOR INHIBITION OF HISTAMINE RELEASE", CHEMICAL AND PHARMACEUTICAL BULLETIN,JP,PHARMACEUTICAL SOCIETY OF JAPAN. TOKYO, vol. 29, no. 12, 1 December 1981 (1981-12-01), pages 3494 - 3498, XP000651856, ISSN: 0009-2363
• See references of WO 9639140A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)
WO 9639140 A1 19961212; AU 6149796 A 19961224; AU 705661 B2 19990527; CA 2221842 A1 19961212; EP 0831824 A1 19980401; EP 0831824 A4 20010502; JP 2001516330 A 20010925

DOCDB simple family (application)
US 9608672 W 19960604; AU 6149796 A 19960604; CA 2221842 A 19960604; EP 96919056 A 19960604; JP 50118697 A 19960604