

Title (en)

Beta-adrenergic antagonist compounds and derivatives of beta-adrenergic antagonists.

Title (de)

Beta-adrenergisch antagonistische Verbindungen und Derivate von beta-adrenergischen Antagonisten.

Title (fr)

Composés antagonistes bêta-adrénériques et dérivés d'antagonistes bêta-adrénériques.

Publication

EP 0117089 A1 19840829 (EN)

Application

EP 84300651 A 19840202

Priority

US 46349883 A 19830203

Abstract (en)

Molecular structures of beta -adrenergic antagonists are modified to produce biologically active compounds. The beta -antagonists are modified to form molecules of the general structure: <CHEM> wherein R is most generally R sec -OCH₂-, and in some instances is R sec -, and R sec = an aryl or substituted aryl moiety; R min = -H, -CH₃, or a short chain alkyl moiety; and Y = -OH, or more usually, -OAX or -NHAX, where A = an alkyl, aryl, or aralkyl moiety, and X = a terminal grouping, such as -CH₃, -CF₃ or -(CH₂)_nCOOH; or AX may be a carrier moiety consisting of a defined peptide or protein.

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Applicant

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IPC 1-7 (main, further and additional classification)

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IPC 8 full level (invention and additional information)

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CPC (invention and additional information)

C07D 209/08 (2013.01); **C07C 235/74** (2013.01); **C07D 209/48** (2013.01); **C07D 303/22** (2013.01); **C07D 303/24** (2013.01); **C07D 405/12** (2013.01); **C07K 5/06078** (2013.01)

Citation (search report)

- CH 547772 A 19740411 - BOEHRINGER MANNHEIM GMBH
- EP 0045334 A1
- EP 0041492 A1
- WO 8201870 A1
- DE 2655195 A1
- DE 2458624 B2
- DE 1925956 A1

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FR2644697A1; WO9011292A2

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

EPO simple patent family

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1991-12-27 [REG FR ST] NOTIFICATION OF LAPSE

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- Ref Legal Event Code : ST

1991-11-01 [PG25 DE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO

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- Payment date : 19900228
- Year of fee payment : 07

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- Ref Country Code : GB
- Payment date : 19900131
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1990-01-25 [PGFP LU] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

- Ref Country Code : LU
- Payment date : 19900125
- Year of fee payment : 07

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- Ref Country Code : BE
- Payment date : 19900123
- Year of fee payment : 07

1990-01-22 [PGFP DE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

- Ref Country Code : DE
- Payment date : 19900122
- Year of fee payment : 07

1990-01-22 [PGFP SE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

- Ref Country Code : SE
- Payment date : 19900122
- Year of fee payment : 07

1990-01-18 [PGFP AT] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

- Ref Country Code : AT
- Payment date : 19900118
- Year of fee payment : 07

1990-01-17 [PGFP FR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

- Ref Country Code : FR
- Payment date : 19900117
- Year of fee payment : 07

1990-01-16 [PGFP CH] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

- Ref Country Code : CH
- Payment date : 19900116
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- Owner name : MODIANO & ASSOCIATI S.R.L.

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- Country of Ref Document : DE
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1988-12-14 [PG25 SE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO

- Ref Country Code : SE
- Effective date : 19881214

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- Ref Document Number : 39245
- Country of Ref Document : AT
- Date of Ref Document : 19881215
- Kind Code of Ref Document : T
- Format of ref. document F/P : P

1987-04-01 [D17Q] FIRST EXAMINATION REPORT (DELETED)

1986-05-07 [17Q] FIRST EXAMINATION REPORT

- Effective date : 19860321

1985-03-06 [17P] REQUEST FOR EXAMINATION FILED

- Effective date : 19841217

1984-08-29 [AK] DESIGNATED CONTRACTING STATES:

- Designated State(s) : AT BE CH DE FR GB IT LI LU NL SE