PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : C07D 215/56, A61K 31/47 | A1

(11) International Publication Number: **WO 99/55678**

(43) International Publication Date: 4 November 1999 (04.11.99)

(21) International Application Number: PCT/SE99/00676

(22) International Filing Date: 26 April 1999 (26.04.99)

(30) Priority Data:
9801474-9 27 April 1998 (27.04.98) SE

(71) Applicant: ACTIVE BIOTECH AB [SE/SE]; P.O. Box 724, S-220 07 Lund (SE).

(72) Inventors: BJÖRK, Anders; Svalvägen 9, S-237 36 Bjärred (SE). JÖNSSON, Stig; Sofiaparken 2, S-222 41 Lund (SE). FEX, Tomas; Harpasset 1, S-226 52 Lund (SE). HEDLUND, Gunnar; Gullregnsvägen 131 E, S-224 56 Lund (SE).

(74) Agents: BERGVALL EFTRING, Stina, Lena et al.; Dr. Ludwig Brann Patentbyrå AB, P.O. Box 17192, S-104 62 Stockholm (SE).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

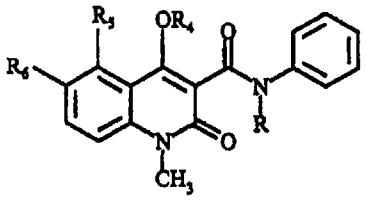


G00002

(54) Title: QUINOLINE DERIVATIVES



162162



(I)

(57) Abstract

The invention relates to compounds of general formula (I) wherein R is selected from ethyl, n-propyl, iso-propyl, n-butyl, iso-butyl, sec.-butyl and allyl; R_4 is selected from hydrogen and pharmaceutically acceptable inorganic and organic cations; R_5 is selected from methyl, ethyl, n-propyl, iso-propyl, methoxy, ethoxy, chloro, bromo, CF_3, and OCH_xF_y; wherein x = 0 - 2, y = 1 - 3 with the proviso that x + y = 3; R_6 is hydrogen; or R_5 and R_6 taken together are methylenedioxy; and any tautomer thereof. The invention also relates to pharmaceutical compositions containing a compound of general formula (I) together with a pharmaceutically acceptable carrier. Included are also processes for the preparation of the compounds of formula (I), as well as methods of treating mammals suffering from diseases resulting from autommunity and pathological inflammation by administrering a compound having formula (I) to said mammal.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	**ES**	Spain	**LS**	Lesotho	**SI**	Slovenia
AM	Armenia	**FI**	Finland	**LT**	Lithuania	**SK**	Slovakia
AT	Austria	**FR**	France	**LU**	Luxembourg	**SN**	Senegal
AU	Australia	**GA**	Gabon	**LV**	Latvia	**SZ**	Swaziland
AZ	Azerbaijan	**GB**	United Kingdom	**MC**	Monaco	**TD**	Chad
BA	Bosnia and Herzegovina	**GE**	Georgia	**MD**	Republic of Moldova	**TG**	Togo
BB	Barbados	**GH**	Ghana	**MG**	Madagascar	**TJ**	Tajikistan
BE	Belgium	**GN**	Guinea	**MK**	The former Yugoslav Republic of Macedonia	**TM**	Turkmenistan
BF	Burkina Faso	**GR**	Greece			**TR**	Turkey
BG	Bulgaria	**HU**	Hungary	**ML**	Mali	**TT**	Trinidad and Tobago
BJ	Benin	**IE**	Ireland	**MN**	Mongolia	**UA**	Ukraine
BR	Brazil	**IL**	Israel	**MR**	Mauritania	**UG**	Uganda
BY	Belarus	**IS**	Iceland	**MW**	Malawi	**US**	United States of America
CA	Canada	**IT**	Italy	**MX**	Mexico	**UZ**	Uzbekistan
CF	Central African Republic	**JP**	Japan	**NE**	Niger	**VN**	Viet Nam
CG	Congo	**KE**	Kenya	**NL**	Netherlands	**YU**	Yugoslavia
CH	Switzerland	**KG**	Kyrgyzstan	**NO**	Norway	**ZW**	Zimbabwe
CI	Côte d'Ivoire	**KP**	Democratic People's Republic of Korea	**NZ**	New Zealand		
CM	Cameroon			**PL**	Poland		
CN	China	**KR**	Republic of Korea	**PT**	Portugal		
CU	Cuba	**KZ**	Kazakstan	**RO**	Romania		
CZ	Czech Republic	**LC**	Saint Lucia	**RU**	Russian Federation		
DE	Germany	**LI**	Liechtenstein	**SD**	Sudan		
DK	Denmark	**LK**	Sri Lanka	**SE**	Sweden		
EE	Estonia	**LR**	Liberia	**SG**	Singapore		