

(19) World Intellectual Property Organization

International Bureau

WIPO

(43) International publication date

22 February 2001 (22.02.2001)

PCT

(10) International publication number

WO 01/12632 A2

(51) International patent classification⁷:

C07D 471/16, A61K 31/4375, A61P 35/00 //

(C07D 471/16, 221:00, 221:00, 221:00)

(21) International application number: PCT/FR00/02313

(22) International filing date: 11 August 2000 (11.08.2000)

(25) Language of filing: French

(26) Language of publication: French

(30) Data relating to the priority:

99/10,493 13 August 1999 (13.08.1999) FR

(71) Applicant (for all designated States except US):

LABORATOIRE L. LAFON [FR/FR]; 19, avenue du
Professeur Cadiot, F-94701 Maisons Alfort (FR).

(72) Inventors; and

(75) Inventors/Applicants (US only): DELFOURNE, Evelyne
[FR/FR]; 4, impasse du Liège, F-66450 Pollestres (FR).
DARRO, Francis [FR/BE]; Avenue V. Olivier, Bâtiment 8A,
Boîte 60, B-1070 Brussels (BE). BASTIDE, Jean [FR/FR]; 20,
rue Antoine Carbo, F-66000 Perpignan (FR). KISS, Robert
[BE/BE]; 4, Cour au Bois, B-1440 Wauthier-Braine
(BE). FRYDMAN, Armand [FR/FR]; 10, allée des Fusains,
F-91370 Verrières-le-Buisson (FR).(74) Representatives: OBOLENSKY, Michel etc.; Cabinet
Lavoix, 2, place d'Estienne d'Orves, F-75441 Paris
Cedex 09 (FR).(81) Designated states (national): AE, AG, AL, AM, AT,
AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CR, CU, CZ, DE, DK, DM, DZ, 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, MA, MD,
MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ,
UA, UG, US, UZ, VN, YU, ZA, ZW.(84) Designated states (regional): ARIPO Patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, 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).

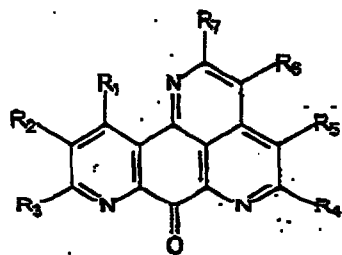
Published

- Without the International Search Report and to be
republished once the report has been received.For an explanation of the two-letter codes and the other
abbreviations, reference is made to the explanations
("Guidance Notes on Codes and Abbreviations") at the
beginning of each regular edition of the PCT Gazette.

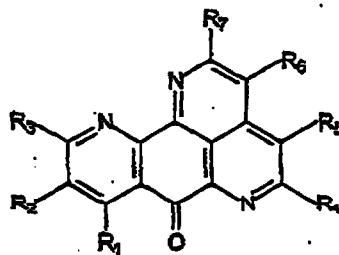
As printed

(54) Title: PHENANTHROLINE-7-ONE DERIVATIVES AND THEIR THERAPEUTIC USES

(54) Titre: DERIVES DE PHENANTHROLINE-7-ONES ET LEURS APPLICATIONS EN THERAPEUTIQUE



(I)



(Ia)

(57) Abstract: The invention concerns a pharmaceutical composition comprising an efficient amount of a compound selected among the compounds of formulae (I) and (Ia), wherein: R₁, R₂, R₃, R₄, R₅, R₆ and R₇ are as defined in Claim 1. Said compounds have interesting cytotoxic properties leading to a therapeutic use as antitumoral medicines.(57) Abrégé: La présente invention concerne une composition pharmaceutique comprenant une quantité efficace d'un composé choisi parmi les composés de formule (I) et (Ia), dans lesquelles, R₁, R₂, R₃, R₄, R₅, R₆ et R₇ sont tels que définis à la revendication 1. Ces composés possèdent des propriétés cytotoxiques intéressantes conduisant à une application thérapeutique comme médicaments anti-tumoraux.