

## Publication

**EP 0575526 A4 19940330**

## Application

**EP 92908816 A 19920309**

## Priority

- US 66595491 A 19910308
- US 82730292 A 19920129

## Abstract (en)

[origin: EP0503537A1] A compound according to formula (I): <CHEM> wherein R is C1-C10 alkyl; phenyl or C7-C10 aralkyl; C2-C10 alkyl substituted with one or two substituents selected from the group consisting of OR1 and -NR2R3; C2-C10 alkyl interrupted by one or two oxygen atoms or by a member selected from the group consisting of -NR4-, cis -CH=CH-, trans -CH=CH- and -C=C-, and optionally substituted with one or two hydroxy (OH) or -NR2R3 groups; and wherein R1 is selected from the group consisting of hydrogen, C1-C6 alkyl, phenyl, C7-C10 aralkyl, -CHO, -COR5-, -COOR5, -S(O2)R5 and C2-C6 alkyl optionally substituted with -NR2R3; R2 and R3 are the same or different and are selected from the group consisting of hydrogen, C1-C10 alkyl, C7-C10 aralkyl, phenyl, C2-C10 alkyl substituted with one or two hydroxy (OH) groups, -CHO, -COR5, -COOR5, and -S(O2)R5, R2 and R3 taken together with the nitrogen atom to which they are bound form an ethyleneimine ring or a 5- or 6-membered aromatic or non-aromatic heterocyclic ring optionally containing another heteroatom selected from the group consisting of sulfur, oxygen and nitrogen, R2 is H and R3 is -C(=NH)NH2 or R2 is -C(=NH)NH2 and R3 is H; R4 is selected from the group consisting of hydrogen, C1-C10 alkyl, C2-C10 hydroxyalkyl, C2-C10 alkyl substituted with -NR2R3, C7-C10 aralkyl, phenyl, -COR5, -COOR5 and -S(O2)R5; R5 is selected from the group consisting of C1-C10 alkyl, C7-C10 aralkyl, alpha -, beta -, or gamma -naphthyl, phenyl, o-, m-, or p-tolyl as free bases and their salts with pharmaceutically acceptable acids, have been found to have cytostatic and anti-tumor activity.

## IPC 1-7

**C07D 221/08**

## IPC 8 full level

**A61K 31/435** (2006.01); **A61K 31/473** (2006.01); **A61K 31/535** (2006.01); **A61P 35/00** (2006.01); **C07D 221/06** (2006.01); **C07D 221/08** (2006.01); **C07D 401/14** (2006.01)

## CPC (source: EP)

**A61P 35/00** (2017.12); **C07D 221/08** (2013.01); **C07D 401/14** (2013.01); **Y02P 20/55** (2015.11)

## Citation (search report)

- [Y] GB 2000029 A 19790104 - ALLIED CHEM
- [Y] US 4197249 A 19800408 - DURR FREDERICK E [US], et al
- [Y] M. CROISY-DELCEY ET AL: "Aminoalkylamino derivatives of dihydroxy-benzo[g]isoquinoline dione and of trihydroxy-naphtho[2,3-g]isoquinoline dione:synthesis and anti-tumor evaluation", EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol. 23, no. 1, January 1988 (1988-01-01), PARIS FR, pages 101 - 106
- See references of WO 9215300A1

## Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

## DOCDB simple family (publication)

**EP 0503537 A1 19920916; EP 0503537 B1 19970514**; AT E153018 T1 19970515; AU 1580392 A 19921006; AU 663494 B2 19951012; BR 9205740 A 19940927; CA 2104582 A1 19920917; CZ 184793 A3 19940615; CZ 286180 B6 20000216; DE 69219646 D1 19970619; DE 69219646 T2 19971002; DK 0503537 T3 19971215; EP 0575526 A1 19931229; EP 0575526 A4 19940330; ES 2104753 T3 19971016; FI 103575 B1 19990730; FI 103575 B 19990730; FI 933895 A0 19930907; FI 933895 A 19930907; GR 3024436 T3 19971128; HU 215967 B 19990329; HU T68649 A 19950728; IE 920754 A1 19920909; IL 102087 A 19960912; JP 3009465 B2 20000214; JP H06511230 A 19941215; KR 100193593 B1 19990615; MX 9201020 A 19931101; NZ 241868 A 19950526; RU 2129546 C1 19990427; SG 66252 A1 19990720; TW 201735 B 19930311; WO 9215300 A1 19920917

## DOCDB simple family (application)

**EP 92104004 A 19920309**; AT 92104004 T 19920309; AU 1580392 A 19920309; BR 9205740 A 19920309; CA 2104582 A 19920309; CZ 184793 A 19920309; DE 69219646 T 19920309; DK 92104004 T 19920309; EP 92908816 A 19920309; ES 92104004 T 19920309; FI 933895 A 19930907; GR 970402079 T 19970813; HU 9302540 A 19920309; IE 920754 A 19920306; IL 10208792 A 19920603; JP 50823192 A 19920309; KR 930702688 A 19930908; MX 9201020 A 19920309; NZ 24186892 A 19920306; RU 93057572 A 19920309; SG 1996004917 A 19920309; TW 81101743 A 19920307; US 9201606 W 19920309