

Title (en)  
9H-PYRROLO[2,3-B: 5,4-C']DIPYRIDINE AZACARBOLINE DERIVATIVES, PREPARATION THEREOF, AND THERAPEUTIC USE THEREOF

Title (de)  
9H-PYRROLO[2,3-B: 5,4-C']DIPYRIDINAZACARBOLINDERIVATE, DEREN HERSTELLUNG UND DEREN THERAPEUTISCHE VERWENDUNG

Title (fr)  
DERIVES D'AZACARBOLINES 9H-PYRROLO[2,3-b:5,4-c']DIPYRIDINE, LEUR PREPARATION ET LEUR UTILISATION THERAPEUTIQUE

Publication  
**EP 2411389 A2 20120201 (FR)**

Application  
**EP 09797115 A 20091130**

Priority

- FR 2009052330 W 20091130
- FR 0901368 A 20090324
- FR 0956944 A 20091006

Abstract (en)  
[origin: WO2010109084A2] The invention relates to novel 9H-pyrrolo[2,3-b: 5,4-c'] dipyridine azacarbolines of formula (I), where: Z2, Z3, and Z4 are CH, CRa, CRs, or N; R3 is H, Hal, CF3, CHF2; OH, alkoxy; NH2, NH (alkyl), N(alkyl)2; C(O)O alkyl; CONH(alkyl), CON(alkyl)2; C1-C10 alkyl; aryl; heteroaryl; R6 is heteroaryl; Ra is CONH2, CONH alkyl, CONH cycloalkyl; CONH heterocycloalkyl; CON(alkyl)2; CON(alkyl)(heterocycloalkyl); CONHN(alkyl)2; C(O)heterocycloalkyl; Rs is H; Hal, OH; O-alkyl(C1-C10); NH2; N(alkyl(C1-C10) or cycloalkyl(C3-C7))2; NHC(O)R3a; N(alkyl(C1-C10)C(O)R3a; NHS(O2)R3a; N(alkyl(C1-C10)S(O2)R3a; CO2R3a; SR3a; S(O)R3a; S(O2)R3a; Ra and Rs optionally form a cycle; R3a is selected from among Hal, CF3, C1-C10 alkyl; C3-C7 cycloalkyl; C2-C6 alkenyl; C2-C6 alkynyl; OH; O-alkyl(C1-C10); (C3-C7); heterocycloalkyl (C3-C7); NH2; NH-(alkyl(C1-C10) or cycloalkyl(C3-C7)); N(alkyl(C1-C10) or cycloalkyl(C3-C7))2; NH-(alkyl(C1-C10) or heterocycloalkyl(C3-C7)); N(alkyl(C1-C10) or heterocycloalkyl(C3-C7))2, as well as to the isomers and salts of said substances of formula (I) and to the therapeutic use thereof for treating cancer.

IPC 8 full level  
**C07D 471/14** (2006.01)

CPC (source: EP KR US)  
**A61K 31/4375** (2013.01 - KR); **A61K 35/00** (2013.01 - KR); **A61P 29/00** (2018.01 - EP); **A61P 35/00** (2018.01 - EP); **C07D 207/34** (2013.01 - EP US); **C07D 213/24** (2013.01 - EP US); **C07D 471/14** (2013.01 - EP KR US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**WO 2010109084 A2 20100930; WO 2010109084 A3 20110106**; AR 073431 A1 20101103; AU 2009342734 A1 20111013; BR PI0924844 A2 20160126; CA 2756152 A1 20100930; CN 102365282 A 20120229; EP 2411389 A2 20120201; IL 215286 A0 20111130; JP 2012521394 A 20120913; KR 20110130504 A 20111205; MX 2011010062 A 20111118; RU 2011142791 A 20130427; SG 174903 A1 20111128; TW 201035097 A 20101001; US 2012208809 A1 20120816; UY 32275 A 20100630

DOCDB simple family (application)  
**FR 2009052330 W 20091130**; AR P090104599 A 20091130; AU 2009342734 A 20091130; BR PI0924844 A 20091130; CA 2756152 A 20091130; CN 200980158303 A 20091130; EP 09797115 A 20091130; IL 21528611 A 20110921; JP 2012501334 A 20091130; KR 20117024857 A 20091130; MX 2011010062 A 20091130; RU 2011142791 A 20091130; SG 2011068889 A 20091130; TW 98140843 A 20091130; US 200913258924 A 20091130; UY 32275 A 20091130