

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number
WO 2004/083155 A3

(51) International Patent Classification⁷: **C07H 19/20**,
A61K 31/7076

(21) International Application Number:
PCT/EP2004/002810

(22) International Filing Date: 18 March 2004 (18.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03006059.4 19 March 2003 (19.03.2003) EP
60/456,003 19 March 2003 (19.03.2003) US

(71) Applicants and

(72) Inventors: **HERRMANN, Dieter** [DE/DE]; Bothestrasse
54/1, 69126 Heidelberg (DE). **HECKL-ÖSTREICHER,**
Brigitte [DE/DE]; Königstuhl 10, 69177 Heidelberg
(DE). **MÜLLER, Christoph** [DE/DE]; Mumbacher Str.
38, 69488 Birkenau (DE). **LUTZ, Christian** [DE/DE];
Bergstr. 30b/Whg. 25A, 69221 Dossenheim (DE).
VOIGT, Robert [DE/DE]; Waldweg 5, 69121 Heidelberg
(DE). **BAUTA, William, E.** [US/US]; 19502 Encino Gap,
San Antonio, TX 78259 (US).

(74) Agent: **WAGNER, Jutta**; Zellentin & Partner,
Rubensstrasse 30, 67061 Ludwigshafen/Rhein (DE).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, 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 receipt of
amendments*

(88) Date of publication of the international search report:
31 March 2005

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: NUCLEOTIDE LIPID ESTER DERIVATIVES

(57) Abstract: The subject of the present invention are specific lipidesters of halogenated-adenine nucleotides and the use of such
lipidesters in the treatment of tumors.



WO 2004/083155 A3