

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
3 January 2008 (03.01.2008)

PCT

(10) International Publication Number  
**WO 2008/001212 A3**

(51) International Patent Classification:  
*C07D 499/887* (2006.01) *A61P 31/04* (2006.01)  
*A61K 31/431* (2006.01)

Research & Development, Eastern Point Road, Groton,  
Connecticut 06340 (US).

(21) International Application Number:  
PCT/IB2007/001843

(74) Agent: **FULLER, Grover, F., Jr.**; c/o Lawrence, Jackie,  
Pfizer Inc. MS8260-1615, Eastern Point Road, Groton, CT  
06340 (US).

(22) International Filing Date: 18 June 2007 (18.06.2007)

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH,  
CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG,  
ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL,  
IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK,  
LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX,  
MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,  
RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/806,000 28 June 2006 (28.06.2006) US  
60/911,587 13 April 2007 (13.04.2007) US

(71) Applicant (*for all designated States except US*): **PFIZER  
PRODUCTS INC.** [US/US]; Eastern Point Road, Groton,  
CT 06340 (US).

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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).

(72) Inventors; and

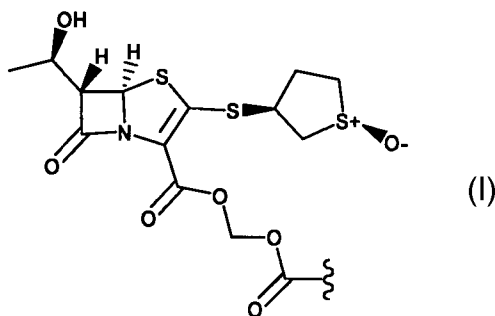
(75) Inventors/Applicants (*for US only*): **BRIGHTY,  
Katherine, Elizabeth** [US/US]; Pfizer Global Research  
& Development, Eastern Point Road, Groton, Connecti-  
cut 06340 (US). **MARFAT, Anthony** [US/US]; Pfizer  
Global Research & Development, Eastern Point Road,  
Groton, Connecticut 06340 (US). **MCLEOD, Dale,  
Gordon** [CA/US]; Pfizer Global Research & Develop-  
ment, Eastern Point Road, Groton, Connecticut 06340  
(US). **O'DONNELL, John, Paul** [US/US]; Pfizer Global

Published:

— with international search report

(88) Date of publication of the international search report:  
20 March 2008

(54) Title: PENEM PRODRUGS



(57) Abstract: Orally bioavailable prodrugs of sulopenem, e.g., For-  
mula (I) and solvates and hydrates thereof, preparation thereof, formu-  
lation thereof, and use to treat and prevent infection in mammals such  
as humans.