

9805638-5
IPOS copy



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12P 37/00, 37/02, 35/00, C12N 15/00	A1	(11) International Publication Number: WO 98/04732 (43) International Publication Date: 5 February 1998 (05.02.98)
(21) International Application Number: PCT/US97/12181 (22) International Filing Date: 15 July 1997 (15.07.97) (30) Priority Data: 60/022,622 26 July 1996 (26.07.96) US (71) Applicant: BRISTOL-MYERS SQUIBB COMPANY [US/US]; P.O. Box 4000, Princeton, NJ 08543-4000 (US). (72) Inventors: USHER, John, J.; 486 Summerhaven Drive, East Syracuse, NY 13057 (US). ROMANCIK, Guna; 6103 Thunderhead Lane, Jamesville, NY 13078 (US). (74) Agents: ALMAULA, Prabodh, I. et al.; Bristol-Myers Squibb Company, P.O. Box 4000, Princeton, NJ 08543-4000 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, 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 the receipt of amendments.
(54) Title: SYNTHESIS OF β-LACTAM ANTIBACTERIALS USING SOLUBLE SIDE CHAIN ESTERS AND ENZYME ACYLASE		
(57) Abstract Disclosed is a process for the synthesis of β-lactam antibacterials using soluble side chain esters in the presence of enzyme acylase. Also disclosed are novel esters useful as reactants in said process.		