



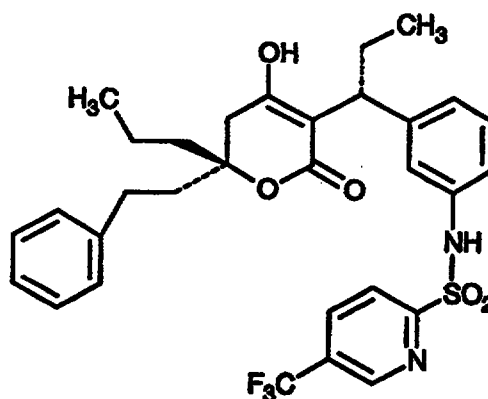
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(21) International Application Number: PCT/US98/17993 (22) International Filing Date: 3 September 1998 (03.09.98) (30) Priority Data: 60/058,618 11 September 1997 (11.09.97) US (71) Applicant (for all designated States except US): PHARMACIA & UPJOHN COMPANY [US/US]; 301 Henrietta Street, Kalamazoo, MI 49001 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): GAGE, James, R. [US/US]; 341 Point-O-Woods, Portage, MI 49002 (US). KELLY, Robert, C. [US/US]; 936 East Gull Lake Drive, Augusta, MI 49012 (US). HEWITT, Bradley, D. [US/US]; 6300 Woodlea, Kalamazoo, MI 49004 (US). (74) Agent: STEIN, Bruce; Pharmacia & Upjohn Company, Intellectual Property Legal Services, 301 Henrietta Street, Kalamazoo, MI 49001 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>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.</i>	

(54) Title: **PROCESS TO PRODUCE 4-HYDROXY-2-OXO-PYRANE DERIVATES USEFUL AS PROTEASE INHIBITORS**

(57) Abstract

Disclosed is a novel process and novel intermediates to prepare [R-(R*,R*)]-N-[3-[1-[5,6-dihydro-4-hydroxy-2-oxo-6-(2-phenylethyl)-6-propyl-2H-pyran-3-yl]propyl]phenyl]-5-(trifluoromethyl)-2-pyridinesulfonamide (XIX) which is a protease inhibitor useful in treating humans infected with the HIV virus.



(XIX)