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(21) International Application Number: PCT/US97/00764 (22) International Filing Date: 22 January 1997 (22.01.97) (30) Priority Data: 60/010,463 ✓ 23 January 1996 (23.01.96) ✓ US ✓ (71) Applicants (for all designated States except US): THE REGENTS OF THE UNIVERSITY OF MICHIGAN [US/US]; Room 2071, Wolverine Tower, 3003 South State Street, Ann Arbor, MI 48109-1280 (US). GLAXO GROUP LIMITED [GB/GB]; Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex UB6 0NN (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): TOWNSEND, Leroy, B. [US/US]; 3317 East Dobson Place, Ann Arbor, MI 48105 (US). DRACH, John, C. [US/US]; 1372 Barrister Road, Ann Arbor, MI 48105 (US). FREEMAN, George, A. [US/US]; 3900 Inland Court, Raleigh, NC 27606 (US). (74) Agents: KONSKI, Antoinette, F. et al.; Morrison & Foerster L.L.P., 755 Page Mill Road, Palo Alto, CA 94304-1018 (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, HU, 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, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), 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. <i>see p. 8</i>
(54) Title: MODIFIED BENZIMIDAZOLE NUCLEOSIDES AS ANTIVIRAL AGENTS ✓		
(57) Abstract This invention pertains to nucleoside analogs which have antiviral activity and improved metabolic stability. More specifically, this invention pertains to modified sugar benzimidazole nucleosides, as exemplified by compounds such as benzimidazole nucleosides possessing a fluorinated sugar-like moiety (for example, a 2'-fluoro-furanosyl moiety or a 3'-fluoro-furanosyl moiety), and may be represented by formula (I) wherein R¹ is a fluorinated sugar-like moiety; and R², R⁴, R⁵, R⁶ and R⁷ are benzimidazole substituents, such as -H, halogens (e.g., -F, -Cl, -Br, -I), -NO₂, -NR₂ (where R is independently -H or an alkyl group having 1-6 carbon atoms), -OR (where R is -H or an alkyl group having 1-6 carbon atoms), -SR (where R is -H or a hydrocarbyl of 1-10 carbon atoms), and -CF₃. In one embodiment, R¹ is 2'-fluoro-furanosyl or 3'-fluoro-furanosyl; R² is -H, -F, -Cl, -Br, -I, or -NR₂, wherein R is independently -H or an alkyl group having 1-6 carbon atoms; R⁴, R⁵, R⁶ and R⁷ are independently -H, -F, -Cl, -Br, or -I.		

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