



(51) International Patent Classification:  
A01N 43/04 (2006.01)

(21) International Application Number:  
PCT/US2009/068963

(22) International Filing Date:  
21 December 2009 (21.12.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
61/139,428 19 December 2008 (19.12.2008) US  
61/232,663 10 August 2009 (10.08.2009) US

(71) Applicant (for all designated States except US): PINNACLE PHARMACEUTICALS, INC. [US/US]; 1881 Grove Avenue, Radford, VA 24141 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HECHT, Sidney [US/US]; 3123 East Sierra Vista Drive, Phoenix, AZ 85016 (US). FAHMI, Nour, Eddine [MA/US]; 3186 Saddlebrook Lane, Charlottesville, VA 22911 (US). ROY, Samir, D. [US/US]; 1733 Monet Hill, Charlottesville, VA 22911 (US). BONNEVILLE, George [US/US]; 166 Mountainside Drive, Stanardsville, VA 22973 (US).

(74) Agents: ESMOND, Robert, W. et al.; Sterne, Kessler, Goldstein & Fox, P.L.L.C., 1100 New York Avenue, N.W., Washington, DC 20005-3934 (US).

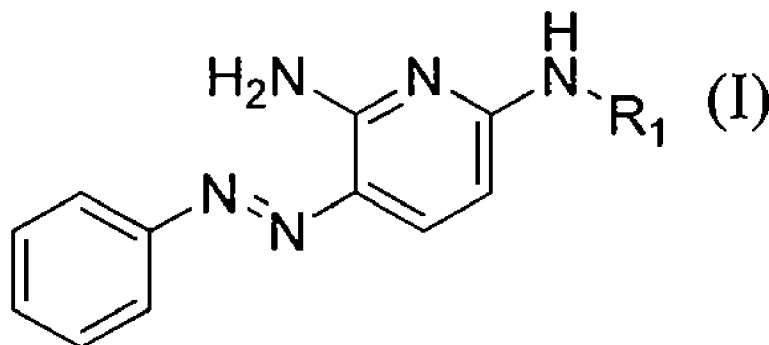
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG,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

(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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: PHENAZOPYRIDINE COMPOUNDS



(57) Abstract: The present invention is directed to substituted phenazopyridines represented by Formula I. The present invention also relates to the discovery that compounds of Formula I have increased bioavailability as compared to unconjugated phenazopyridine.