

9705559-4
Ipos copy



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07H 19/14, 19/23, A61K 31/70	A1	(11) International Publication Number: WO 96/40705 (43) International Publication Date: 19 December 1996 (19.12.96)
(21) International Application Number: PCT/US96/10404 (22) International Filing Date: 7 June 1996 (07.06.96) (30) Priority Data: 08/486,161 7 June 1995 (07.06.95) US (71) Applicant: GENSIA INC. [US/US]; 9360 Town Centre, San Diego, CA 92121 (US). (72) Inventors: BOYER, Serge, H.; 7285 Charmant Drive #221, San Diego, CA 92122 (US). ERION, Mark, D.; 13455 Mango Drive, Del Mar, CA 92014 (US). UGARKAR, Bheemarao, G.; 3821 Azalea Glen, Escondido, CA 92025 (US). (74) Agents: SCHAFFER, Robert et al.; Darby & Darby P.C., 805 Third Avenue, New York, NY 10022 (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 (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 <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: C-4' MODIFIED ADENOSINE KINASE INHIBITORS (57) Abstract This invention relates to adenosine kinase inhibitors and to nucleoside analogs, C-4' modified pyrrolo[2,3-d] pyrimidine and pyrazolo[3,4-d] pyrimidine nucleoside analogs having activity as adenosine kinase inhibitors. The invention relates to nucleoside analogs of this kind, having zero substitutions or two substitutions at the C-4' position of the furanose (sugar) moiety. The invention also relates to the preparation and use of these adenosine kinase inhibitors in the treatment of cardiovascular, and cerebrovascular diseases, inflammation and other diseases which can be regulated by increasing the local concentration of adenosine.		