



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <b>(21) International Application Number:</b> <b>PCT/US98/03373</b><br><b>(22) International Filing Date:</b> <b>27 February 1998 (27.02.98)</b><br><b>(30) Priority Data:</b><br><b>US 08/808,263 28 February 1997 (28.02.97) US</b><br><b>(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application</b><br><b>US 08/808,263 (CON)</b><br><b>Filed on 28 February 1997 (28.02.97)</b><br><b>(71) Applicants (for all designated States except US):</b> <b>ATHENA NEUROSCIENCES, INC. [US/US]; 800 Gateway Boulevard, South San Francisco, CA 94080 (US). ELI LILLY &amp; COMPANY [US/US]; Lilly Corporate Center, Indianapolis, IN 46285 (US).</b><br><b>(72) Inventors; and</b><br><b>(75) Inventors/Applicants (for US only):</b> <b>THORSETT, Eugene, D. [US/US]; 571 Buena Vista Street, Moss Beach, CA 94038 (US). PORTER, Warren, J. [US/US]; 8037 Lieber Road, Indianapolis, IN 46260 (US). NISSEN, Jeffrey, S. [US/US]; 4348 Oil Creek Drive, Indianapolis, IN 46268</b> | <b>(US). LATIMER, Lee, H. [US/US]; 56 Sheridan Road, Oakland, CA 94618 (US). AUDIA, James, E. [US/US]; 6449 Lakeside Woods Circle, Indianapolis, IN 46278 (US). DROSTE, James, J. [US/US]; 7430 Wood Stream Drive, Indianapolis, IN 46254 (US).</b><br><b>(74) Agents:</b> <b>SWISS, Gerald, F. et al.; Burns, Doane, Swecker &amp; Mathis, L.L.P., P.O. Box 1404, Alexandria, VA 22313-1404 (US).</b><br><b>(81) Designated States:</b> <b>AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, 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, 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).</b><br><b>Published</b><br><i>With international search report.</i><br><i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> |                                                                                                                                                    |
| <b>(54) Title:</b> <b>HETEROCYCLIC COMPOUNDS AND THEIR USE FOR INHIBITING <math>\beta</math>-AMYLOID PEPTIDE</b><br><b>(57) Abstract</b><br><p>Disclosed are compounds which inhibit <math>\beta</math>-amyloid peptide release and/or its synthesis, and, accordingly, have utility in treating Alzheimer's disease. Also disclosed are pharmaceutical compositions comprising a compound which inhibits <math>\beta</math>-amyloid peptide release and/or its synthesis as well as methods for treating Alzheimer's disease both prophylactically and therapeutically with such pharmaceutical compositions.</p>                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                    |