



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C07C 311/21, 323/41, C07D 211/24, 311/20, 207/08, 277/06, 295/12, A61K 31/18, A61P 25/00		A1	(11) International Publication Number: WO 00/50391
			(43) International Publication Date: 31 August 2000 (31.08.00)
(21) International Application Number: PCI/US00/04560		(71) Applicants (for all designated States except US): MERCK & CO., INC. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065 (US). BRISTOL-MYERS SQUIBB COMPANY [US/US]; Route 206, Princelaine Road, Princeton, NJ 08543, P.O. Box 4000 (US).	
(22) International Filing Date: 22 February 2000 (22.02.00)		(72) Inventors; and	
(30) Priority Data:		(75) Inventors/Applicants (for US only): SMITH, David, W. [US/US]; 29 Beckman Place, Madison, CT 06443 (US). MUNOZ, Benito [CA/US]; 10741 Frank Daniels Way, San Diego, CA 92131 (US). SRINIVASAN, Kumar [IN/US]; Apartment #604, 5107 S. Blackstone Avenue, Chicago, IL 60615 (US). BERGSTROM, Carl, P. [US/US]; 21 Paper Mill Drive, Madison, CT 06443 (US). CHATURVEDULA, Prasad, V. [US/US]; 190 Lancaster Way, Cheshire, CT 06410 (US). DESHPANDE, Milind, S. [US/US]; 18 Devonshire Lane, Madison, CT 06443 (US). KEAVY, Daniel, J. [US/US]; 286 Route 81, Killingworth, CT 06419 (US). LAU, Wai, Yu [-/US]; Apartment C20, 657 East Main Street, Meriden, CT 06450 (US). PARKER, Michael, F. [US/US]; 45 Brainard Hill Road, Iliganum, CT 06441 (US). SLOAN, Charles, P. [CA/US]; 419 Ward Street, Wallingford, CT 06492 (US). WALLACE, Owen, B. [IE/US]; 19 Lyle Drive, Madison, CT 06443 (US). WANG, Henry, Hui [CN/US]; 837A Long Hill Road, Middletown, CT 06457 (US).	
60/121,906 26 February 1999 (26.02.99) US 60/122,746 26 February 1999 (26.02.99) US 60/122,748 26 February 1999 (26.02.99) US 60/130,994 23 April 1999 (23.04.99) US 60/130,995 23 April 1999 (23.04.99) US			
(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Applications			
US 60/121,906 (CIP) Filed on 26 February 1999 (26.02.99) US 60/122,746 (CIP) Filed on 26 February 1999 (26.02.99) US 60/122,748 (CIP) Filed on 26 February 1999 (26.02.99) US 60/130,994 (CIP) Filed on 23 April 1999 (23.04.99) US 60/130,995 (CIP) Filed on 23 April 1999 (23.04.99)			
		(74) Agent: REITER, Stephen, E.; Gray Cary Ware & Freidenrich LLP, Suite 1600, 4365 Executive Drive, San Diego, CA 92121 (US).	
		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, 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.</i> <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>	
(54) Title: NOVEL SULFONAMIDE COMPOUNDS AND USES THEREOF			
(57) Abstract			
In accordance with the present invention, there is provided a novel class of sulfonamide compounds. Compounds of the invention contain a core sulfonamide group. Variable moieties connected to the sulfur atom and nitrogen atom of the sulfonamide group include substituted or unsubstituted hydrocarbyl moieties, substituted or unsubstituted heterocycle moieties, polycyclic moieties, halogen, alkoxy, ether, ester, amide, sulfonyl, sulfonamidyl, sulfide, carbamate, and the like. Invention compounds are capable of a wide variety of uses. For example sulfonamide compounds can act to modulate production of amyloid β protein and are useful in the prevention or treatment of a variety of diseases. Pharmaceutical compositions containing invention compounds are also provided. Such compositions have wide utility for the prevention or treatment of a variety of diseases.			