

(43) International Publication Date
16 September 2010 (16.09.2010)

PCT

(10) International Publication Number
WO 2010/104854 A3(51) International Patent Classification:
C12Q 1/68 (2006.01)(21) International Application Number:
PCT/US2010/026665(22) International Filing Date:
9 March 2010 (09.03.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/158,526 9 March 2009 (09.03.2009) US

(72) Inventors; and

(71) Applicants : MELLING, Mitchell, J. [US/US]; 653 South Rose Blossom Drive, Layton, UT 84041 (US).
MELLING, Wade, M. [US/US]; 653 South Rose Blossom Drive, Layton, UT 84041 (US).

(74) Agents: REMENICK, James et al.; Remenick, PLLC, 1025 Thomas Jefferson Street, NW, Suite 175, Washington, DC 20007 (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, TH, 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))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
4 November 2010

(54) Title: IMMUNOMODULATORY THERAPEUTIC AGENTS

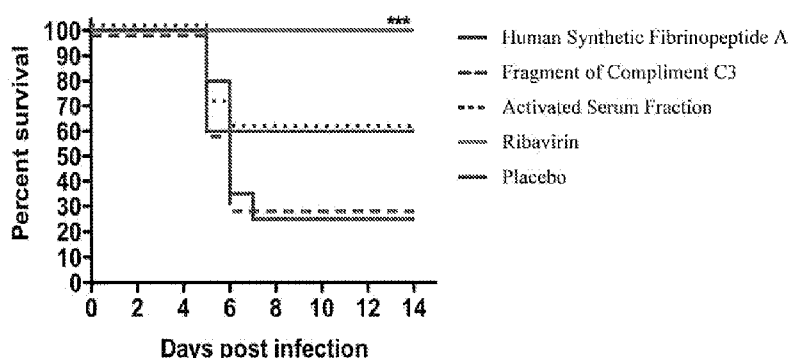


Figure 1

(57) Abstract: A group of peptides has been isolated from the serum of domesticated mammals and then identified through the use of mass spectrometry. These peptides are byproducts of fibrinogen activation and the complement cascade. The peptides of greatest activity are the activated forms of fibrinopeptide A and fibrinopeptide B {activated by the removal of the terminal Arginine). and an immunomodulatory fragment of Complement Component 3. These form of fibrinopeptides A and B have remarkable immunomodulatory ability, enhancing recognition of foreign substances including infectious agents of all types, decreasing the inflammatory response, preventing the deposition of extravascular fibrin, stimulating the resorption of fibrin that has already been deposited, enhancing the body's ability to recognize and eliminate neoplastic cells, decreasing symptoms of allergic reaction including allergic rhinitis and anaphylaxis, decrease the formation and deposit of autoantibody complexes, ameliorate the symptoms of chronic neurologic disease, and decrease the symptoms of chronic pain syndromes.