

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 July 2007 (05.07.2007)

PCT

(10) International Publication Number
WO 2007/075343 A3

(51) International Patent Classification:
A61K 38/43 (2006.01)

(21) International Application Number:
PCT/US2006/047592

(22) International Filing Date:
14 December 2006 (14.12.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/750,339 15 December 2005 (15.12.2005) US

(71) Applicant (for all designated States except US): **CHEM-GEN CORPORATION** [US/US]; 211 Perry Parkway, Gaithersburg, MD 20877 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ANDERSON, David, M.** [US/US]; 13601 Cherrydale Drive, Rockville, MD 20850 (US). **HSIAO, Hung-Yu** [US/US]; 1719 Glastonberry Road, Rockville, MD 20854 (US). **LIU, Lin** [US/US]; 13622 Pine View Lane, Rockville, MD 20850 (US).

(74) Agents: **BENT, Stephen, A.** et al.; Foley & Lardner LLP, Washington Harbour, 3000 K Street, N.W. Suite 500, Washington, DC 20007-5143 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, 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, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, 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, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
4 October 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ENZYMES FOR REDUCED IMMUNOLOGICAL STRESS

(57) Abstract: Compositions suitable for oral administration to an animal comprising at least one immune stress-reducing enzyme in an amount effective to decrease the level of positive acute phase protein in an animal, increase the level of negative acute phase protein in an animal, and/or improve animal growth performance is provided, as are methods using such compositions. The compositions include animal feed compositions, liquid compositions other than animal feed, and solid compositions other than animal feed.



WO 2007/075343 A3