

(51) International Patent Classification:
C12P 13/12 (2006.01)(21) International Application Number:
PCT/JP2011/064334(22) International Filing Date:
16 June 2011 (16.06.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2010-136928 16 June 2010 (16.06.2010) JP(71) Applicant (for all designated States except US): SUMITOMO CHEMICAL COMPANY, LIMITED [JP/JP];
27-1, Shinkawa 2-chome, Chuo-ku, Tokyo, 1048260 (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): ASAKO, Hiroyuki [JP/JP]; 2-10-6-303, Sonehigashino-cho, Toyonaka-shi, Osaka, 5610802 (JP).

(74) Agents: TANAKA, Mitsuo et al.; AOYAMA & PARTNERS, IMP Building, 3-7, Shiromi 1-chome, Chuo-ku, Osaka-shi, Osaka, 5400001 (JP).

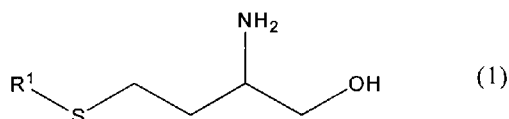
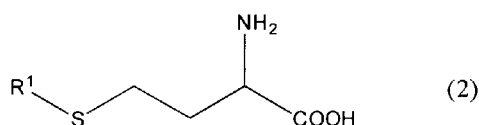
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, 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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, 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, RS, 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))

(54) Title: PROCESS FOR PRODUCING SULFUR-CONTAINING ALPHA-AMINO ACID COMPOUND



(57) Abstract: The present invention provides a novel process for producing a sulfur-containing α -amino acid compound such as methionine. A process for producing a sulfur-containing α -amino acid compound represented by the formula (2): wherein R^1 represents hydrogen, an alkyl group having 1 to 8 carbon atoms, or an aryl group having 6 to 20 carbon atoms; comprising a step of reacting a sulfur-containing amino alcohol compound represented by the formula (1): wherein R^1 is the same as defined above, with a microbial cell or a processed product of the microbial cell of a microorganism capable of converting the sulfur-containing amino alcohol compound into a corresponding sulfur-containing α -amino acid compound.