(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国 际 局

(43) 国际公布日:
2005年7月21日(21.07.2005)

PCT

(10) 国际公布号:
WO 2005/066201 A1

(51) 国际分类号[7]: C07K 7/08, 14/47, A61P 29/00, 37/06

(21) 国际申请号: PCT/CN2004/001362

(22) 国际申请日: 2004年11月26日(26.11.2004)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
200410000851.2 2004年1月5日(05.01.2004) CN

(71)(72) 发明人/申请人: 吴文言(WU, Wenyan) [CN/CN]; 中国广东省广州市新港西路135号中山大学生命科学学院, Guangdong 510275 (CN)。

(74) 代理人: 广州市新诺专利事务所有限公司 (GUANGZHOU SINO PATENT AGENT CO., LTD.); 中国广东省广州市仓边路87号四楼, Guangdong 510030 (CN)。

(81) 指定国(除另有指明, 要求每一种可提供的国家保护): 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, 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, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

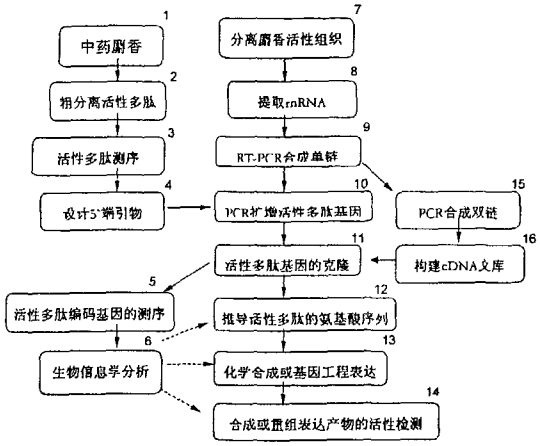
(84) 指定国(除另有指明, 要求每一种可提供的地区保护): ARIPO(BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), 欧亚专利(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧洲专利(AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

本国际公布:
— 包括国际检索报告。

所引用双字母代码和其它缩写符号，请参考刊登在每期PCT公报期刊起始的"代码及缩写符号简要说明"。

(54) Title: AMINO ACID SEQUENCES FROM ACTIVE PRINCIPLE OF MUSK AND THEIR ACETIC SALT, ALSO THE PREPARATION AND USAGE

(54) 发明名称: 麝香有效成分的氨基酸序列和醋酸盐及其制备方法和应用



1 MUSK OF CHINESE TRADITIONAL MEDICINE
2 CRUDE SEPARATION OF THE ACTIVE POLYPEPTIDE
3 SEQUENCE ACTIVE POLYPEPTIDE
4 DESIGN 5'-END PRIMER
5 SEQUENCE THE GENE CODING THE ACTIVE POLYPEPTIDE
6 BIOINFORMATICS ANSLYSIS
7 DISPART THE ACTIVE TISSUE OF MUSK
8 EXTRACT MRNA
9 SYNTHESIS SIGNAL STRAND BY RT-PCR
10 AMPLIFY THE GENE OF ACTIVE POLYPEPTIDE BY PCR
11 CLONING THE GENE OF ACTIVE POLYPEPTIDE
12 DERIVE THE ACTIVE POLYPEPTIDE SEQUENCE
13 CHEMICAL SYNTHESIS OR EXPRESS BY THE GENETIC ENGINEERING
14 DETERMINE ACTIVITY OF THE SYNTHETIC OR EXPRESSED PRODUCT
15 SYNTHESIS DOUBLE STRANDS BY PCR
16 MADE CDNA LIBRARIES

(57) **Abstract:** In the present invention, there are disclosed some amino acid sequences obtained from the active principle in Chinese traditional medicine musk, such as SDSECPLLCEVWILK, SDSECPLLPRQGTGSLH, IDCECPLLEAKCPSFPLWPQG REERQ, SDSECPLLLNGTNTSSRFESINCVFLSTEEGC and their acetic salt. The preparation method of the above said sequences and their application for anti-inflammatory medicine or immunity inhibitor are also disclosed by this invention.

[见续页]

WO 2005/066201 A1

(57) 摘要

本发明公开了从中药麝香的有效成分中获得的氨基酸序列 SDSECPLLCEVWILK,SDSECPLLPRQGTGSLH,IDCECPLLEAKCPSFPLWPQG REERQ, SDSECPLLLNGTNTSSRFESINCVFLSTEEGC 及其醋酸盐。本发明还公开了上述氨基酸序列的制备方法及其在作为抗炎药物和免疫抑制药物的应用。