

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
01 June 2023 (01.06.2023)



(10) International Publication Number
WO 2023/097207 A8

- (51) **International Patent Classification:**
C07K 7/08 (2006.01) *C07K 5/02* (2006.01)
- (21) **International Application Number:**
PCT/US2022/080295
- (22) **International Filing Date:**
22 November 2022 (22.11.2022)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/282,842 24 November 2021 (24.11.2021) US
63/323,552 25 March 2022 (25.03.2022) US
- (71) **Applicant: IRONWOOD PHARMACEUTICALS, INC.**
[US/US]; 100 Summer Street, Suite 2300, Boston, Massachusetts 02110 (US).
- (72) **Inventors: LEITHEISER, Christopher;** 51 Alton Street, Arlington, Massachusetts 02474 (US). **STORZ, Thomas;** c/o Ironwood Pharmaceuticals, Inc., 100 Summer Street, Suite 2300, Boston, Massachusetts 02110 (US). **CHEN,**

Lin; c/o Ironwood Pharmaceuticals, Inc., 100 Summer Street, Suite 2300, Boston, Massachusetts 02110 (US).

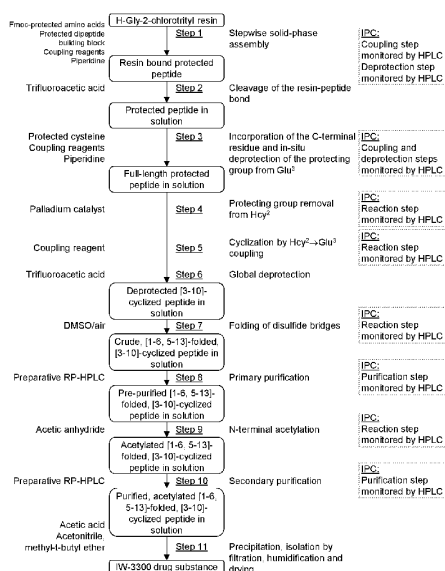
- (74) **Agent: MURPHY, Kelly;** Honigman LLP, 650 Trade Centre Way, Suite 200, Kalamazoo, Michigan 49002 (US).

(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, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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,

- (54) **Title:** SYNTHETIC PROCESS FOR PRODUCTION OF MODIFIED GCC RECEPTOR AGONISTS

(57) **Abstract:** The present invention relates to methods of producing a synthetic peptide or pharmaceutically acceptable salts thereof of SEQ ID NO: 1.



LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE,
SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report (Art. 21(3))*
- *with sequence listing part of description (Rule 5.2(a))*

(48) Date of publication of this corrected version:

07 December 2023 (07.12.2023)

(15) Information about Correction:

see Notice of 07 December 2023 (07.12.2023)