

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
30 May 2025 (30.05.2025)



(10) International Publication Number
WO 2025/109193 A1

(51) International Patent Classification:

C07D 277/06 (2006.01) C12N 5/00 (2006.01)

(21) International Application Number:

PCT/EP2024/083337

(22) International Filing Date:

22 November 2024 (22.11.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

FR2313030 24 November 2023 (24.11.2023) FR
24305405.3 18 March 2024 (18.03.2024) EP

(71) Applicant: **SANOFI** [FR/FR]; 46 avenue de la Grande Armée, 75017 PARIS (FR).

(72) Inventors: **WU, Yang**; c/o Sanofi, Patent Department, 450 Water Street, CAMBRIDGE, Massachusetts 02141 (US).
LIU, Yuxin; c/o Sanofi, Patent Department, 450 Water Street, CAMBRIDGE, Massachusetts 02141 (US).

(74) Agent: **ROCHER, Olivier** et al.; LAVOIX, 2, place d'Estienne d'Orves, 75441 PARIS CEDEX 09 (FR).

(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, MU, 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, 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).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

(54) Title: SYNTHESIZED THIAZOLIDINES AS A CYSTEINE DELIVERY METHOD IN CELL CULTURE FEED

(57) Abstract: The present disclosure, in some aspects, is directed to methods of making cysteine source solutions comprising a thiazolidine. In certain other aspects, the present disclosure is directed to methods of using the cysteine source solutions (such as in making a cell culture medium, performing cell culture, and/ or producing a polypeptide), and systems and kits comprising the cysteine source solutions.



WO 2025/109193 A1