

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
12 September 2025 (12.09.2025)



(10) International Publication Number
WO 2025/187713 A1

(51) International Patent Classification:
C07H 21/02 (2006.01) C12N 15/11 (2006.01)

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).

(21) International Application Number:
PCT/JP2025/007821

Published:

- with international search report (Art. 21(3))
- with amended claims and statement (Art. 19(1))
- with sequence listing part of description (Rule 5.2(a))

(22) International Filing Date:
05 March 2025 (05.03.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/562,424 07 March 2024 (07.03.2024) US

(71) Applicant: EISAI R&D MANAGEMENT CO., LTD.
[JP/JP]; 4-6-10 Koishikawa, Bunkyo-ku, Tokyo, 1128088
(JP).

(72) Inventors: NAKAMOTO Kosuke; C/O Eisai Co., Ltd.
Tsukuba Research Laboratories, 5-1-3 Tokodai, Tsuku-
ba-shi, Ibaraki, 3002635 (JP). SUZUKI Yuta; C/O Eisai
Co., Ltd. Tsukuba Research Laboratories, 5-1-3 Tokodai,
Tsukuba-shi, Ibaraki, 3002635 (JP). MUTO Hiroki; C/O
Eisai Co., Ltd. Tsukuba Research Laboratories, 5-1-3 Toko-
dai, Tsukuba-shi, Ibaraki, 3002635 (JP). LEE Jung Hwa;
C/O Eisai Inc., 35 Cambridgepark Drive, Cambridge, Mass-
achusetts, 02140 (US). CHOI Hyeon-Wook; C/O Eisai
Inc., 35 Cambridgepark Drive, Cambridge, Massachusetts,
02140 (US).

(74) Agent: HASEGAWA Yoshiki et al.; SOEI PATENT AND
LAW FIRM, Marunouchi MY PLAZA (Meiji Yasuda
Life Bldg.) 9th fl., 1-1, Marunouchi 2-chome, Chiyoda-ku,
Tokyo, 1000005 (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, 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, UY, 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: POLYNUCLEOTIDE AND PRODUCING METHOD THEREOF

(57) Abstract: Disclosed are a polynucleotide with improved stability in vivo, a producing method thereof, and a method of improving the stability of polynucleotide in vivo.

WO 2025/187713 A1