



- (51) **International Patent Classification:**
G01N 33/53 (2006.01) A61K 41/00 (2020.01)
- (21) **International Application Number:**
PCT/US2023/067438
- (22) **International Filing Date:**
24 May 2023 (24.05.2023)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/365,458 27 May 2022 (27.05.2022) US
- (71) **Applicant: ELEDON PHARMACEUTICALS, INC.**
[US/US]; 19900 MacArthur Blvd., Suite 550, Irvine, California 92612 (US).
- (72) **Inventor: PERRIN, Steven N.;** 19900 MacArthur Blvd., Suite 550, Irvine, California 92612 (US).
- (74) **Agent: ALTMAN, Daniel, E.;** KNOBBE, MARTENS, OLSON & BEAR, LLP, 2040 Main Street, 14th Floor, Irvine, California 92614 (US).

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:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- without international search report and to be republished upon receipt of that report (Rule 48.2(g))
- with sequence listing part of description (Rule 5.2(a))

- (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,

- (54) **Title:** METHODS FOR THE TREATMENT OF AMYOTROPHIC LATERAL SCLEROSIS

FIG. 1A

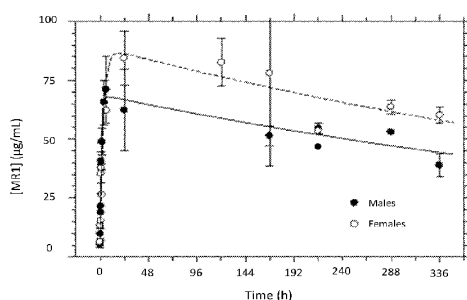
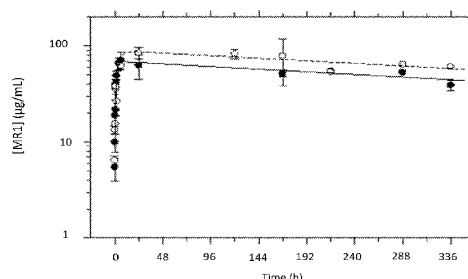


FIG. 1B



- (57) **Abstract:** Provided herein are methods and kits for treating neurodegenerative diseases such as Amyotrophic Lateral Sclerosis, Alzheimer's Disease Parkinson's Disease, Myasthenia Gravis, Multifocal Motor Neuropathy, Primary Lateral Sclerosis, Spinal Muscular Atrophy, Kennedy's Disease, and Spinocerebellar Ataxia. Also provided are methods of predicting or measuring a response to a treatment by measuring biomarker levels in a sample, and methods of modulating biomarker levels.