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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
10 September 2021 (10.09.2021)

WIPO | PCT

(10) International Publication Number
WO 2021/178734 A1

(51) International Patent Classification:
A61K 31/00 (2006.01) *A61K 35/00* (2006.01)
A61K 31/522 (2006.01)

(21) International Application Number:
PCT/US2021/020979

(22) International Filing Date:
05 March 2021 (05.03.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/985,802 05 March 2020 (05.03.2020) US

(71) Applicant: **BIOHAVEN THERAPEUTICS LTD.** [US/US]; 215 Church Street, New Haven, Connecticut 06510 (US).

(72) Inventors: **QURESHI, Irfan**; Biohaven Therapeutics Ltd., 215 Church Street, New Haven, Connecticut 06510 (US). **FROST, Marianne**; Biohaven Therapeutics Ltd., 215 Church Street, New Haven, Connecticut 06510 (US). **DONOHUE, Mary K.**; Biohaven Therapeutics Ltd., 215 Church Street, New Haven, Connecticut 06510 (US).

(74) Agent: **ZUEV, Dmitry**; Biohaven Therapeutics Ltd., 215 Church Street, New Haven, Connecticut 06510 (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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, 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, GH, GM, KE, LR, LS, MW, MZ, NA, RW, 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, 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))*
— *of inventorship (Rule 4.17(iv))*

Published:
— *with international search report (Art. 21(3))*

WO 2021/178734 A1

(54) Title: METHOD OF TREATING AMYOTROPHIC LATERAL SCLEROSIS WITH MYELOPEROXIDASE INHIBITOR

(57) Abstract: Provided is a method for treating amyotrophic lateral sclerosis, including administering to a subject in need of such treatment an effective amount of a myeloperoxidase inhibitor or a pharmaceutically acceptable salt thereof.