

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

(19) World Intellectual Property  
Organization

International Bureau

(43) International Publication Date  
30 November 2023 (30.11.2023)



(10) International Publication Number  
**WO 2023/229462 A1**

(51) International Patent Classification:

*A61K 31/185* (2006.01) *A61P 35/00* (2006.01)  
*A61K 31/19* (2006.01) *A61K 31/337* (2006.01)  
*A61K 31/198* (2006.01) *A61K 31/513* (2006.01)  
*A61K 31/704* (2006.01)

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))

(21) International Application Number:

PCT/NL2023/050297

(22) International Filing Date:

23 May 2023 (23.05.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2031966 23 May 2022 (23.05.2022) NL

(71) Applicant: **PLECO THERAPEUTICS B.V.** [NL/NL];  
Jonkerbosplein 52, 6534 AB Nijmegen (NL).

(72) Inventors: **GELVAN, Dan**; c/o Jonkerbosplein 52, 6534  
AB Nijmegen (NL). **MULLER, Patricia**; c/o Jonker-  
bosplein 52, 6534 AB Nijmegen (NL).

(74) Agent: **WITMANS, H.A.**; V.O., P.O. Box 87930, 2508 DH  
Den Haag (NL).

(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,

(54) Title: CHELATING AGENTS FOR USE UN CANCER THERAPY

(57) Abstract: The invention provides a chelating agent for use in a method of treating cancer in a subject, wherein said cancer has a resistance to an anti-cancer therapeutic agent. Further, the invention provides a chelating agent for use in a method of sensitizing a subject for an anti-cancer treatment and/or counteracting a resistance to an anti-cancer therapeutic agent, wherein the method restores or re-activates a tumor suppressor protein function that preferably was impaired due to aberrant tumor suppressor protein folding. The invention also provides a pharmaceutical composition comprising a 2,3- Dimercapto-1-propanesulfonic acid (DMPS) or DMSA, preferably miaDMSA, and a pharmaceutically acceptable excipient; wherein the DMPS is present in a dose of 40-12000 mg.



WO 2023/229462 A1