

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
12 October 2023 (12.10.2023)



(10) International Publication Number
WO 2023/194458 A1

(51) International Patent Classification:

C07D 409/12 (2006.01) A61P 31/00 (2006.01)
C07D 405/12 (2006.01) A61P 31/12 (2006.01)
C07D 409/14 (2006.01) A61K 31/357 (2006.01)
C07D 513/04 (2006.01) A61K 31/381 (2006.01)
C07D 407/12 (2006.01) A61K 31/404 (2006.01)
A61P 35/00 (2006.01) A61K 31/4436 (2006.01)
A61P 25/00 (2006.01) A61K 31/4025 (2006.01)
A61P 25/28 (2006.01) A61K 31/4365 (2006.01)
A61P 3/00 (2006.01) A61K 31/4985 (2006.01)
A61P 3/04 (2006.01) A61K 31/343 (2006.01)
A61P 3/10 (2006.01)

(21) International Application Number:

PCT/EP2023/058978

(22) International Filing Date:

05 April 2023 (05.04.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

22166685.2 05 April 2022 (05.04.2022) EP

(71) Applicant: **WMT AG** [DE/DE]; Waldhofer Str. 104,
69123 Heidelberg (DE).

(72) Inventors: **TARASEWICZ, Anika**; Obertor 14, 64673
Zwingenberg (DE). **STEENECK, Christoph**; Weberstr.
4/2, 69120 Heidelberg (DE). **LESZCZYNSKI, Bartosz**;
Kniestr. 4, 30167 Hannover (DE). **VIEIRA, Andreia**;
Birkenweg 16, 64295 Darmstadt (DE). **SECHI, Stefano**;
Mühlstraße 25, 69226 Nußloch (DE). **REID, George**;
20E Windsor Street, Dundee DD2 1BN (GB). **CHARA-
PITSA, Iryna**; Panoramastr. 38, 69198 Schriesheim (DE).
FABIAN, Johannes; Sauerbruchstr. 62, 69723 Schwetzing-
en (DE). **KROL, Helen**; Darmstädter Str. 124, 64625 Ben-

sheim (DE). **KREMOSER, Claus**; Mühlalstr. 121a, 69121
Heidelberg (DE).

(74) Agent: **GRÜNECKER PATENT- UND RECHTSAN-
WÄLTE PARTG MBB**; Leopoldstr. 4, 80802 München
(DE).

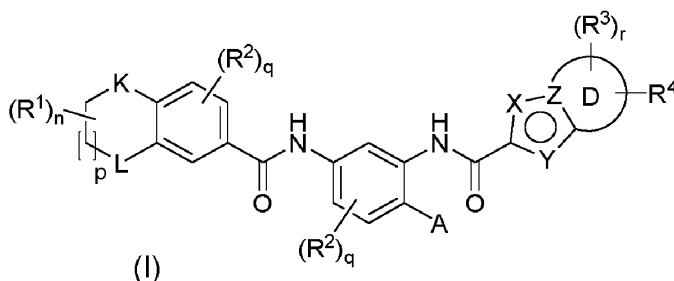
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, 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).

Published:

- with international search report (Art. 21(3))
- with sequence listing part of description (Rule 5.2(a))

(54) Title: N-(3-(BENZO[B]THIOPHENE-2-CARBOXAMIDO)-PHENYL)-2,3-DIHYDROBENZO[B][1,4]DIOXINE-6-CAR-
BOXAMIDE DERIVATIVES AND RELATED COMPOUNDS AS LACTATE/ATP PRODUCTION INHIBITORS FOR THE
TREATMENT OF CANCER



(57) Abstract: The present invention relates to a compound of formula (I) or an enantiomer, diastereomer, N-oxide, solvate or pharma-
ceutically acceptable salt thereof. The present invention further relates to a compound of formula (I) for use in a method of preventing
and/or treating a disease or condition, in particular cancer.



WO 2023/194458 A1