

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
26 June 2025 (26.06.2025)



(10) International Publication Number
WO 2025/133265 A1

(51) International Patent Classification:

A61K 31/443 (2006.01) A61K 31/496 (2006.01)
A61K 31/4436 (2006.01) A61P 11/00 (2006.01)
A61K 31/4439 (2006.01)

(21) International Application Number:

PCT/EP2024/088129

(22) International Filing Date:

20 December 2024 (20.12.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

23220194.7 22 December 2023 (22.12.2023) EP
63/617,829 05 January 2024 (05.01.2024) US

(71) Applicant: **ZEDIRA GMBH** [DE/DE]; Roesslerstrasse
83, 64293 Darmstadt (DE).

(72) Inventors: **PASTERNAK, Ralf**, Jahnstr. 6, 64347
Griesheim (DE). **BÜCHOLD, Christian**; Erich-Käst-
ner-Str. 68, 61184 Karben (DE). **HILS, Martin**; Ingel-
heimerstr. 9b, 64295 Darmstadt (DE). **GERLACH, Uwe**;
Im Heideck 30, 65795 Hattersheim (DE). **FLORIAN, Pe-
ter**; Würzburger Str. 17, 63619 Bad Orb (DE).

(74) Agent: **ARTH, Hans-Lothar**; ABK Patent Attorneys, Jas-
minweg 9, 14052 Berlin (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).

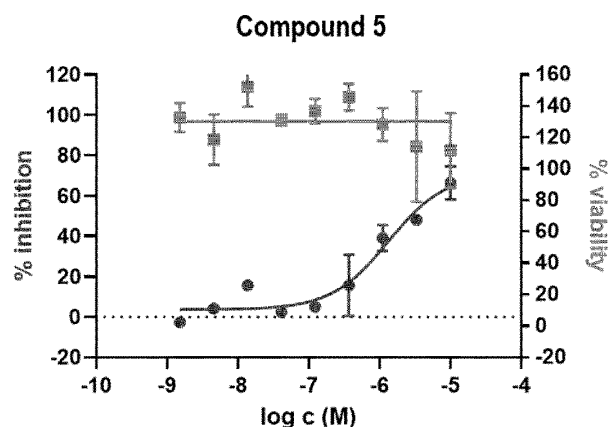
Published:

- with international search report (Art. 21(3))
- in black and white; the international application as filed
contained color or greyscale and is available for download
from PATENTSCOPE

(54) Title: OXO-PYRIDINE DERIVATIVES AS INHIBITORS OF TRANSGLUTAMINASES FOR USE IN THE TREATMENT OF PULMONARY FIBROSIS

Figure 14

A



(57) Abstract: The invention relates to specifically selected inhibitors of transglutaminase 2 (TG2), which are oxypyridine derivatives of formula (I), useful for the treatment of pulmonary inflammation, pulmonary fibrosis, in particular idiopathic pulmonary fibrosis.

WO 2025/133265 A1