

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
20 March 2025 (20.03.2025)



(10) International Publication Number
WO 2025/057074 A1

(51) International Patent Classification:

C07D 209/08 (2006.01)	C07D 307/79 (2006.01)
C07D 209/30 (2006.01)	C07D 307/83 (2006.01)
C07D 215/227 (2006.01)	C07D 311/04 (2006.01)
C07D 217/02 (2006.01)	C07D 319/16 (2006.01)
C07D 217/04 (2006.01)	C07D 471/04 (2006.01)
C07D 235/06 (2006.01)	C07C 233/64 (2006.01)
C07D 235/08 (2006.01)	A61P 35/00 (2006.01)
C07D 263/56 (2006.01)	A61K 31/404 (2006.01)
C07D 265/36 (2006.01)	A61K 31/423 (2006.01)
C07D 277/62 (2006.01)	A61K 31/426 (2006.01)
C07D 277/64 (2006.01)	A61K 31/47 (2006.01)

(21) International Application Number:

PCT/IB2024/058825

(22) International Filing Date:

11 September 2024 (11.09.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

202341061560 13 September 2023 (13.09.2023) IN

(71) Applicant: **SUVEN LIFE SCIENCES LIMITED** [IN/IN]; 6th Floor, Serene Chambers, Road – 5, Avenue – 7, Banjara Hills, Hyderabad, Telangana 500034 (IN).

(72) Inventors: **NIROGI, Ramakrishna**; Suven Life Sciences Limited, 6th Floor, Serene Chambers, Road – 5, Avenue – 7, Banjara Hills, Hyderabad, Telangana 500034 (IN). **MOHAMMED, Abdul Rasheed**; Suven Life Sciences Limited, 6th Floor, Serene Chambers, Road-5, Avenue – 7, Banjara Hills, Hyderabad-Telangana 500034 (IN). **SHINDE, Anil Karbhari**; Suven Life Sciences Limited, 6th Floor, Serene Chambers, Road – 5, Avenue – 7, Banjara Hills, Hyderabad, Telangana 500034 (IN). **RAVELLA, Srinivasa Rao**; Suven Life Sciences Limited, Serene Chambers, Road-5, Avenue – 7, Banjara Hills, Hyderabad-Telangana 500034 (IN). **SUBRAMANIAN, Ramkumar**; Suven Life Sciences Limited, 6th Floor, Serene Chambers, Road – 5, Avenue – 7, Banjara Hills, Hyderabad-Telangana 500034 (IN). **JAYARAJAN, Pradeep**; Serene Chambers, Road-5, Avenue – 7, Banjara Hills, Hyderabad-Telangana 500034 (IN). **PALACHARLA, Raghava Choudary**; Suven Life Sciences Limited, 6th Floor, Serene Chambers, Road – 5, Avenue – 7, Banjara Hills, Hyderabad, Telangana 500034 (IN). **JASTI, Venkateswarlu**; Suven Life Sciences Limited,

ed, 6th Floor, Serene Chambers, Road – 5, Avenue – 7, Banjara Hills, Hyderabad, Telangana 500034 (IN).

(74) Agent: **GAYATRI, Bhasin** et al.; SUBRAMANIAM & ASSOCIATES, Attorney-at-law, 7th Floor, M3M Cosmopolitan, Sector 66, Golf Course Extension Road, Gurugram – 122001, National Capital Region (India), GURUGRAM 122001 (IN).

(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).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

— *with international search report (Art. 21(3))*
— *with amended claims and statement (Art. 19(1))*

(54) Title: N-ARYL BENZAMIDE DERIVATIVES AS P2X7 RECEPTOR ANTAGONISTS

(57) Abstract: The present invention relates to novel N-aryl benzamide derivatives of formula (I) or an isotopic form, a stereoisomer or a pharmaceutically acceptable salt thereof, as P2X7 receptor antagonist. The present invention also relates to pharmaceutical compositions comprising such compounds, chemical processes of preparation of such compounds and use of such compounds in the treatment or prophylaxis of diseases or disorder related to P2X7 receptor activity.

WO 2025/057074 A1