

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
24 October 2024 (24.10.2024)



(10) International Publication Number
WO 2024/218267 A3

(51) International Patent Classification:

A61K 9/19 (2006.01) A61K 31/138 (2006.01)
A61K 9/16 (2006.01) A61K 31/522 (2006.01)
A61K 9/20 (2006.01) A61K 35/06 (2006.01)
A61K 9/14 (2006.01) A61K 47/38 (2006.01)
A61K 31/495 (2006.01) A61P 9/10 (2006.01)

(21) International Application Number:

PCT/EP2024/060657

(22) International Filing Date:

19 April 2024 (19.04.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

23315089.5 20 April 2023 (20.04.2023) EP

(71) Applicant: **LES LABORATOIRES SERVIER** [FR/FR];
35 rue de Verdun, 92284 SURESNES Cedex (FR).

(72) Inventors: **MAHIEUX, Julien**; Technologie Servier, 27,
rue Eugène Vignat, 45000 Orléans (FR). **VILLARD,
Frédéric**; Technologie Servier, 27, rue Eugène Vignat,
45000 Orléans (FR).

(74) Agent: **GIUDICELLI, Cathy**; 35, rue de Verdun, 92284
SURESNES Cedex (FR).

(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))
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

28 November 2024 (28.11.2024)

WO 2024/218267 A3

(54) Title: NOVEL TRIMETAZIDINE SOLID PHASES

(57) Abstract: The present invention relates to novel trimetazidine solid phases, leading to a reduced formation of trimetazidine ni-
trosamine in presence of nitrites.