

Title (en)
PHARMACEUTICAL COMBINATIONS OF HISTONE DEACETYLASE INHIBITOR AND PROTEASOME INHIBITOR OR IMMUNOMODULATORY DRUG FOR THE TREATMENT OF HEMATOLOGICAL CANCER

Title (de)
PHARMAZEUTISCHE KOMBINATIONEN AUS EINEM HISTON-DEACETYLASE-HEMMER UND PROTEASOM-HEMMER ODER IMMUNOMODULATOR ZUR BEHANDLUNG VON BLUTKREBSERKRANKUNGEN

Title (fr)
COMBINAISONS PHARMACEUTIQUES D'INHIBITEUR DE L'HISTONE DÉACÉTYLASE ET D'INHIBITEUR DU PROTÉASOME OU DE MÉDICAMENT IMMUNOMODULATEUR POUR LE TRAITEMENT D'UN CANCER HÉMATOLOGIQUE

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Application
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Abstract (en)
[origin: WO2018066946A1] The present invention relates to a pharmaceutical combination for treating a hematological cancer comprising the histone deacetylase (HDAC) inhibitor of the chemical formula 1, a proteasome inhibitor or an immunomodulatory drug and a steroidal anti-cancer agent together. The pharmaceutical combination of the present invention can be useful for treating a hematological cancer such as multiple myeloma, by reducing toxicity which is the problem of the conventional HDAC inhibitor and exhibiting an equivalent level of pharmaceutical effects due to a complex inhibitory mechanism against the cancer of the compound of chemical formula 1 and its pharmaceutically acceptable salt, the proteasome inhibitor or the immunomodulatory drug and the steroidal anti-cancer agent.

IPC 8 full level
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Citation (search report)
• [I] JONATHAN L. KAUFMAN ET AL: "Histone Deacetylase Inhibitors in Multiple Myeloma: Rationale and Evidence for Their Use in Combination Therapy", CLINICAL LYMPHOMA MYELOMA AND LEUKEMIA, vol. 13, no. 4, 17 June 2013 (2013-06-17), pages 370 - 376, XP055370013, ISSN: 2152-2650, DOI: 10.1016/j.clml.2013.03.016
• [A] CHANSU LEE ET AL: "Abstract 1695: CKD-581, a novel histone deacetylase inhibitor, synergistically enhances Bortezomib cytotoxicity in multiple myeloma cells", EXPERIMENTAL AND MOLECULAR THERAPEUTICS, 30 September 2014 (2014-09-30), pages 1695 - 1695, XP055673884, DOI: 10.1158/1538-7445.AM2014-1695
• [T] ANONYMOUS: "A Phase 1, Open-Label, Multi-Center Study of Alteminostat (CKD-581) in Combination with Lenalidomide and Dexamethasone in Patients with Previously Treated Multiple Myeloma (MM) | Blood | American Society of Hematology", 13 November 2019 (2019-11-13), XP055674271, Retrieved from the Internet <URL:https://ashpublications.org/blood/article/134/Supplement_1/1847/427755/A-Phase-1-OpenLabel-MultiCenter-Study-of> [retrieved on 20200306]
• See references of WO 2018066946A1

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