

Title (en)  
THERAPEUTIC METHODS AND COMPOSITIONS FOR TREATING CANCER USING 6,8-BIS-BENZYLTHIO-OCTANOIC ACID AND AN AUTOPHAGY INHIBITOR

Title (de)  
THERAPEUTISCHE VERFAHREN UND ZUSAMMENSETZUNGEN ZUR BEHANDLUNG VON KREBS UNTER VERWENDUNG VON 6,8-BIS-BENZYLTHIO-OCTANSÄURE UND EINEM AUTOPHAGEN INHIBITOR

Title (fr)  
COMPOSITIONS ET MÉTHODES THÉRAPEUTIQUES POUR TRAITER LE CANCER FAISANT APPEL À L'ACIDE 6,8-BIS-BENZYLTHIO-OCTANOÏQUE ET À UN INHIBITEUR D'AUTOPHAGIE

Publication  
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Application  
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Abstract (en)  
[origin: WO2020132397A1] The invention provides methods and compositions for treating cancer by administering to a patient in need thereof a therapeutically effective amount of 6,8-bis-benzylthio-octanoic acid and an autophagy inhibitor.

IPC 8 full level  
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AU

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3. **A61K 31/52 + A61K 2300/00**
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EP

1. **A61K 31/4706 + A61K 2300/00**
2. **A61K 31/20 + A61K 2300/00**
3. **A61K 31/192 + A61K 2300/00**
4. **A61K 31/155 + A61K 2300/00**
5. **A61K 31/7004 + A61K 2300/00**
6. **A61K 31/4184 + A61K 2300/00**

Citation (search report)

- [XY] REBECCA ANDERSON BS ET AL: "PHARMACOLOGIC INHIBITION OF CELLULAR METABOLIC PROCESSES IMPACTED BY AGING SENSITIZE ACUTE MYELOID LEUKEMIA CELLS TO THE NOVEL LIPOATE DERIVATIVE CPI-613", HEMASPHERE, 1 June 2018 (2018-06-01), XP055722056, Retrieved from the Internet <URL:https://rafaelpharma.com/wp-content/uploads/2018/07/Rafael-Abstract-EHA-2018-Poster-AML\_Aging.pdf> [retrieved on 20200812]
- [Y] ANONYMOUS: "Phase I Dose-Escalation Study of Cpi-613, in Combination with Bendamustine, in Relapsed or Refractory T-Cell Non-Hodgkin Lymphoma", BLOOD, 1 January 2016 (2016-01-01), XP055741754, Retrieved from the Internet <URL:https://ashpublications.org/blood/article/128/22/4163/114147/Phase-I-Dose-Escalation-Study-of-Cpi-613-in> [retrieved on 20201020]
- [Y] ZUZANA ZACHAR ET AL: "Non-redox-active lipoate derivatives disrupt cancer cell mitochondrial metabolism and are potent anticancer agents in vivo", JOURNAL OF MOLECULAR MEDICINE, SPRINGER, BERLIN, DE, vol. 89, no. 11, 19 July 2011 (2011-07-19), pages 1137 - 1148, XP019965329, ISSN: 1432-1440, DOI: 10.1007/S00109-011-0785-8
- [Y] KING C LEE ET AL: "Translational assessment of mitochondrial dysfunction of pancreatic cancer from in vitro gene microarray and animal efficacy studies, to early clinical studies, via the novel tumor-specific anti-mitochondrial agent, CPI-613", ANNALS OF TRANSLATIONAL MEDICINE, 1 September 2014 (2014-09-01), China, pages 91 - 1014, XP055679530, Retrieved from the Internet <URL:https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4205874/pdf/atm-02-09-91.pdf> [retrieved on 20200325], DOI: 10.3978/j.issn.2305-5839.2014.05.08
- [Y] T. S. PARDEE ET AL: "A Phase I Study of the First-in-Class Antimitochondrial Metabolism Agent, CPI-613, in Patients with Advanced Hematologic Malignancies", CLINICAL CANCER RESEARCH, vol. 20, no. 20, 27 August 2014 (2014-08-27), US, pages 5255 - 5264, XP055721419, ISSN: 1078-0432, DOI: 10.1158/1078-0432.CCR-14-1019
- [A] ANGELIQUE V ONORATI ET AL: "Targeting autophagy in cancer", CANCER, AMERICAN CANCER SOCIETY, PHILADELPHIA, PA, US, vol. 124, no. 16, 19 April 2018 (2018-04-19), pages 3307 - 3318, XP071177994, ISSN: 0008-543X, DOI: 10.1002/CNCR.31335
- [A] PASQUIER BENOIT: "Autophagy inhibitors", CMLS CELLULAR AND MOLECULAR LIFE SCIENCES, BIRKHAUSER VERLAG, HEIDELBERG, DE, vol. 73, no. 5, 11 December 2015 (2015-12-11), pages 985 - 1001, XP035801809, ISSN: 1420-682X, [retrieved on 20151211], DOI: 10.1007/S00018-015-2104-Y
- See also references of WO 2020132397A1

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