

Title (en)

A METHOD OF MAKING PHARMACEUTICALLY ACTIVE TAXANES ORALLY BIOAVAILABLE

Title (de)

VERFAHREN ZUR ORALEN BIOVERFÜGBARKEITMACHUNG PHARMAZEUTISCH AKTIVER TAXANE

Title (fr)

PROCEDE PERMETTANT DE RENDRE ACTIFS DU POINT DE VUE PHARMACEUTIQUE DES TAXANES ASSIMILABLES PAR VOIE ORALE

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Application

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Priority

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Abstract (en)

[origin: WO9727855A1] The present invention concerns a method of making pharmacologically active taxane compounds orally bioavailable. More particularly, the invention provides enhancing the oral absorption of pharmacologically active taxane compounds by co-administering a taxane with cinchonine.

IPC 1-7

A61K 31/44; A61K 31/47

IPC 8 full level

A61K 31/49 (2006.01)

CPC (source: EP)

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Citation (third parties)

Third party :

- BAIR CHI-HORNG ET AL: "Concentration-Dependent Exsorption of Quinidine in the Rat Intestine", J. PHARM. PHARMACOL., vol. 44, 1992, pages 659 - 662, XP000847662
- BHALLA K. ET AL: "Characterization of a Human Myeloid Leukemia Cell Line Highly Resistant to Taxol", LEUKEMIA, vol. 8, 1994, pages 465 - 475
- CROOP J.M. ET AL: "The Three Mouse Multidrug Resistance (mdr) Genes Are Expressed in a Tissue-Specific Manner in Normal Mouse Tissues", MOLECULAR AND CELLULAR BIOLOGY, vol. 9, no. 3, March 1989 (1989-03-01), USA, pages 1346 - 1350, XP000847663
- DE LANNOY ET AL: "Cyclosporin and Quinidine Inhibition of Renal Digoxin Excretion: Evidence for Luminal Secretion of Digoxin", AM. J. PHYSIOL., vol. 263, 1992, pages F613 - F622, XP000847664
- ENDICOTT J.A. ET AL: "The Biochemistry of P-Glycoprotein-Mediated Multidrug Resistance", ANNU. REV. BIOCHEM., vol. 58, 1989, pages 137 - 171, XP000847665
- HSING SHU ET AL: "The Function of Gp170, the Multidrug-Resistance Gene Product, in the Brush Border of Rat Intestinal Mucosa", GASTROENTEROLOGY, vol. 102, no. 3, March 1992 (1992-03-01), pages 879 - 885, XP000856631
- JIN-DING HUANG: "Comparative Drug Exsorption in the Perfused Rat Intestine", J. PHARM. PHARMACOL., vol. 42, 1990, pages 167 - 170, XP000847666
- GENNE P. ET AL: "Cinchonine, a Potent Efflux Inhibitor to Circumvent Anthracycline Resistance in Vivo", CANCER RESEARCH, vol. 52, 1992, pages 2797 - 2801
- GENNE P. ET AL: "Comparative Effects of Quinine and Cinchonine in Reversing Multidrug Resistance on Human Leukemia Cell Line K562/ADM", LEUKEMIA, vol. 8, 1994, pages 160 - 164
- GENNE P. ET AL: "Preclinical Study of Cinchonine, Powerful MDR Reversing Agent. 1st. International Conference on Reversal of Multidrug Resistance in Cancer", ANTICANCER DRUGS, vol. 5, no. 23, September 1994 (1994-09-01), ST. GALLEN SWITZERLAND
- GENNE P. ET AL: "Cinchonine per os: Efficient Circumvention of P-Glycoprotein-Mediated Multidrug Resistance", ANTI-CANCER DRUG DESIGN, vol. 10, 1995, pages 103 - 118
- KELLER R.P. ET AL: "Pharmacologic Interactions Between the Resistance-Modifying Cyclosporine SDZ PSC 833 and Etoposide (VP 16-213) Enhance in Vivo Cytostatic Activity and Toxicity", INT. J. CANCER, vol. 51, 1992, pages 433 - 438, XP000847667
- LEHNERT M. ET AL: "In Vitro Evaluation of Chemosensitizers for Clinical Reversal of P-Glycoprotein-Associated Taxol Resistance", J. NATL. CANCER INST. MONOGR., vol. 15, 1993, pages 63 - 67, XP008128608
- LUM B.L. ET AL: "Alteration of Etoposide Pharmacokinetics and Pharmacodynamics by Cyclosporine in a Phase I Trial to Modulate Multidrug Resistance", JOURNAL OF CLINICAL ONCOLOGY, vol. 10, no. 10, October 1992 (1992-10-01), pages 1635 - 1642, XP000847668
- SHAH J.C. ET AL: "Oral Bioavailability and in Situ Absorption of Etoposide in Rat", INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol. 84, 1992, USA, pages 223 - 232, XP000847669
- THIEBAUT F. ET AL: "Cellular Localization of the Multidrug-Resistance Gene Product P-Glycoprotein in Normal Human Tissues", PROC. NATL. ACAD. SCI., vol. 84, November 1987 (1987-11-01), USA, pages 7735 - 7738, XP000847670
- WILSON T.H. ET AL: "The Use of Sacs of Everted Small Intestine for the Study of the Transference of Substances from the Mucosal to the Serosal Surface", J. PHYSIOL., vol. 123, 1954, USA, pages 116 - 125, XP000847671
- WISHART G.C. ET AL: "Adequate Tumour Quinidine Levels for Multidrug Resistance Modulation can be Achieved in Vivo", EUR. J. CANCER, vol. 28, no. 1, 1992, GREAT BRITAIN, pages 28 - 31, XP000847672

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