

Antitumor Bisindole Alkaloids From L

[#antitumor alkaloids](#) [#bisindole compounds](#) [#natural anticancer agents](#) [#phytochemicals cancer](#) [#alkaloid drug discovery](#)

Antitumor bisindole alkaloids represent a significant class of natural compounds, actively investigated for their potent anticancer properties. Derived primarily from various plant sources, these phytochemicals offer promising avenues in drug discovery, particularly as potential agents for novel cancer therapies. Their complex chemical structures and diverse biological activities make them key subjects in pharmaceutical research.

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Antitumor Bisindole Alkaloids From L

Apart from bisindole alkaloids, dimeric alkaloids exist which are formed via dimerization of the indole monomer with another type of alkaloid. An example... 33 KB (3,376 words) - 16:41, 2 September 2023 and laboratory synthesis. Indolocarbazoles belong to the alkaloid sub-class of bisindoles. The most frequently isolated indolocarbazoles are Indolo(2... 20 KB (2,566 words) - 14:28, 16 June 2023

Lab Vinca Alkaloids part a - Lab Vinca Alkaloids part a by Stoddard Tutoring 479 views 2 years ago 4 minutes, 44 seconds - This video introduces the Vinca **Alkaloids**, and why they have medicinal importance. The next videos detail the isolation and ...

Vinca Alkaloids

Madagascar Periwinkle

Vincristine

Vinblastine

Microtubule inhibitors ~pharmacology~ - Microtubule inhibitors ~pharmacology~ by Osmosis from Elsevier 13,443 views 1 year ago 9 minutes, 34 seconds - What are microtubule inhibitors? Microtubule inhibitors, as their name implies, disrupt the microtubules and inhibit mitosis, which ...

Intro

Cytoskeleton

Vinca alkaloids

Side effects

Taxanes

Indications

Memorization

Recap

Pharmacology - CANCER DRUGS – CELL CYCLE INHIBITORS (MADE EASY) - Pharmacology - CANCER DRUGS – CELL CYCLE INHIBITORS (MADE EASY) by Speed Pharmacology 160,241 views 4 years ago 13 minutes, 36 seconds - Cancer is generally defined as the uncontrolled growth

of abnormal cells in the body. One of the common approaches in treatment ...

Overview

Topoisomerase Inhibitors

Microtubule Inhibitors

Antitumor Antibiotics

Alkylating Agents

Platinum Coordination Complexes

Tyrosine Kinase Inhibitors

Monoclonal Antibodies

Side Effects

mechanism of action of vinca alkaloids #anticancer drugs #pharmacology #vincaalkaloids #vinblastin

- mechanism of action of vinca alkaloids #anticancer drugs #pharmacology #vincaalkaloids #vin-

blastin by lazy medico 1,799 views 1 year ago 24 seconds – play Short

What are Alkaloids? - What are Alkaloids? by The Botanical Mind 30,289 views 4 years ago 4 minutes, 25 seconds - Herbal Medicine is based on science as well as tradition. Science helps us to understand the chemistry of herbal medicine. In this ...

What are Alkaloids?

Alkaloids are alkaline organic compounds containing one or more nitrogen atoms.

Alkaloids are mainly obtained from natural sources

Alkaloids are important because they have valuable biochemical pharmacological and medical effects

Some of the most powerful alkaloids include

I will now introduce you to some of the alkaloids I use in my herbal practice

Berberine for example is found in the plant Golden seal and used by herbalists to treat digestive issues

Symphytine is the alkaloid found in Comfrey which is used by herbalists to treat skin conditions.

Vincristine and vinblastine are alkaloids taken from the Madagascar periwinkle plant (Catharanthus roseus).

Plant Secondary Metabolism: Alkaloids - Plant Secondary Metabolism: Alkaloids by TeachEthnobotany 10,421 views 3 years ago 9 minutes, 32 seconds - Although the biological purpose of many **alkaloids**, is still not clearly understood, scientists have determined that many play a role ...

Intro

Tropane Alkaloids

Pyridine- piperidine Alkaloids

Pyrrolizidine Alkaloids

Isoquinoline **Alkaloids**, Papaver somniferum L.,

Indole Alkaloids

Imidazole Alkaloids

Coffee Purine (xanthine) **Alkaloids**, arabica L.,

Vincristine Vinblastine; Mechanism of action e - Vincristine Vinblastine; Mechanism of action e by StudyMed 26,378 views 5 years ago 2 minutes, 27 seconds - How does vin **alkaloid**, work to treat cancer? which phase of cell cycle does it work at? (reference) 1. Microtubules; The basics ...

How does vin alkaloid work to treat cancer?

The structure of microtubules

Vin alkaloid The mechanism of action

The process of mitosis

Vin alkaloid and cell cycle

Ergot Alkaloids: Nursing Pharmacology- an Osmosis Preview - Ergot Alkaloids: Nursing Pharmacology- an Osmosis Preview by Osmosis from Elsevier 20,839 views 2 years ago 1 minute, 21 seconds - Join millions of current and future clinicians who learn by Osmosis, along with hundreds of universities around the world who ...

Paclitaxel; Mechanism of actionf - Paclitaxel; Mechanism of actionf by StudyMed 51,708 views 5 years ago 3 minutes, 1 second - How does paclitaxel work to treat cancer? Which phase of cell cycle does it work in? (Reference) 1. Microtubules; The basics ...

How does paclitaxel work to treat cancer?

The structure of microtubules

Microtubules assembly/disassembly

Paclitaxel The mechanism of action

The process of mitosis

Paclitaxel and cell cycle

Chemotherapeutic agents - Chemotherapeutic agents by MedLecturesMadeEasy 242,003 views 8 years ago 16 minutes - This is a brief overview of chemotherapeutic agents, their mechanism of action, and some related side effects. I created this ...

Introduction

Alkylating agents

Antimetabolites

Microtubule targeting

Anthracyclines

Other chemotherapeutic agents

The Isolation of Natural Products: Morphine and Other Alkaloids - The Isolation of Natural Products: Morphine and Other Alkaloids by Professor Dave Explains 139,309 views 3 years ago 12 minutes, 41 seconds - In the early 19th century, we were still in the habit of searching for plants with medicinal properties. But we were finally beginning ...

Chromatography

Morphine

Analgesics

Pharmacology- Anti cancer Drugs (Cell Cycle Specific and Cell Cycle Non Specific- MADE EASY! - Pharmacology- Anti cancer Drugs (Cell Cycle Specific and Cell Cycle Non Specific- MADE EASY! by Med Made Sirius-ly easy! 141,386 views 4 years ago 15 minutes - Anticancer, drugs are drugs that are effective in the treatment of malignant, or cancerous, disease. There are several major classes ...

Approaches to Treating Cancer

Cell Cycle Specific Anti-Cancer Drugs

Cetera Beam

Methotrexate

Anti Micro Tubular Agents

Cell Cycle Specific Drugs

Non Cell Specific Anti-Cancer Drugs

Normal Dividing Cell Toxicity

Hyperuricemia

Specific Toxicities

Cardiotoxicity

Hemorrhagic Cystitis

Cancer Drugs/Pharmacology - Cancer Drugs/Pharmacology by Dirty Medicine 235,633 views 4 years ago 26 minutes - My goal is to reduce educational disparities by making education FREE. These videos help you score extra points on medical ...

Intro

M-Phase Inhibitors

G1 Inhibitors

S Inhibitors

G2 Inhibitors

Anti-Tumor Antibiotics

Microtubules | Cells | MCAT | Khan Academy - Microtubules | Cells | MCAT | Khan Academy by khanacademymedicine 468,552 views 9 years ago 13 minutes, 4 seconds - Created by Efrat Bruck. Watch the next lesson: ...

Structure

Centrosome

Metaphase

Basal Bodies

Internal Transport

Microtubules (Structure and Function) - Microtubules (Structure and Function) by Cell Bio Clips 167,960 views 5 years ago 7 minutes, 28 seconds - Cell Biology tutorial on the structure and function of microtubules, one of the cytoskeletal elements.

Cytoskeletal Elements

Microtubule Organizing Centers

Centrosomes

Microtubule Associated Proteins (MAPs)

Pharmacology - ANTIVIRAL DRUGS (MADE EASY) - Pharmacology - ANTIVIRAL DRUGS (MADE EASY) by Speed Pharmacology 343,698 views 3 years ago 15 minutes - Antiviral drugs are a class

of medication used for treating viral infections. Most antivirals target specific viruses, while a ...

Intro

Anti-influenza drugs

Anti-HIV drugs

Anti-hepatitis B drugs

Anti-hepatitis C drugs

Anti-herpes drugs

Simple Trick to learn (1) Aldol Condensation (2) } Claisen Schmidt Reaction - Simple Trick to learn

(1) Aldol Condensation (2) } Claisen Schmidt Reaction by IPL CHEMISTRY 160,043 views 5 years ago 23 minutes

(1) Aldol condensation

Cross - aldol condensation

Cross-aldol condensation

What are oligonucleotide therapeutics, and how do they work? - What are oligonucleotide therapeutics, and how do they work? by Certara 10,923 views 2 years ago 9 minutes, 25 seconds - In the last few years, the pharmaceutical industry has invested in developing Complex Biologics including proteins, ...

Intro

History of oligonucleotide therapeutics

How do oligos compare with small molecules

Mechanism of action

Amino acids as precursors for alkaloids - Amino acids as precursors for alkaloids by egpat 5,961 views 3 years ago 13 minutes, 46 seconds - How amino acids act as precursors for many of the **alkaloids**, in the plants. Therapeutically very important drugs can be obtained ...

Anthracyclines, Taxanes, Vinca Alkaloids, Epothilones, and Epipodophyllotoxins - Anthracyclines, Taxanes, Vinca Alkaloids, Epothilones, and Epipodophyllotoxins by UW Health Pharmacy 197 views 2 years ago 51 minutes - Presenter: Mike Reed, RPh, BCOP, BCCCP, BCPS.

Anthracyclines structures

Doxorubicin Indications

Prevention and Monitoring of Cardiac Dysfunction in Survivors of Adult Cancers: American Society of Clinical

Anthracyclines Chronic cardiac toxicity

Cardioprotective medications

Rasburicase

Doxorubicin Liposomal

Daunorubicin and Cytarabine Liposome - Vyxeos

Mitoxantrone Toxicity

Anthracycline Drug Interactions

Taxanes

Paclitaxel Dose

Hypersensitivity Reactions

Paclitaxel Adverse Reactions

The Use of Body Surface Area as a Criterion of Drug Dosage in Cancer Chemotherapy

Vincristine | Vinblastine | Vinorelbine | Microtubule Inhibitor | Anticancer Drugs - Vincristine | Vinblastine | Vinorelbine | Microtubule Inhibitor | Anticancer Drugs by Med Lecto 380 views 6 months ago 16 minutes - anticancerdrugs #cancer #vincaalkaloid #chemotherapy #pharmacology #vincristine #vinblastine #vinorelbine Microtubule ...

Alkaloids Derived From Lysine - Alkaloids Derived From Lysine by RealNameNeverUsed 985 views 8 years ago 6 minutes, 48 seconds

Mechanism of Vinca alkaloids - Mechanism of Vinca alkaloids by Pharmacology Tips & Tricks 666 views 1 year ago 6 seconds – play Short

Synthesizing an Alkaloid - Synthesizing an Alkaloid by Minnesota Online High School 691 views 10 years ago 5 minutes, 18 seconds - Synthesizing an **Alkaloid**, downloaded from PBS LearningMedia.

Biosynthesis of Benzylisoquinoline Alkaloids - Biosynthesis of Benzylisoquinoline Alkaloids by J. Christopher Anderson 797 views 10 years ago 1 minute, 53 seconds - The production of pharmaceutical intermediates is a key interest of metabolic engineers. The biosynthetic production of bioactive ...

Biosynthesis of Indole alkaloids - Biosynthesis of Indole alkaloids by Dr Dipakchandra Sarkar 764 views 2 years ago 23 minutes - Biosynthesis is a multi-step, enzyme-catalyzed process where substrates are converted into more complex products in living ...

Alkaloids -an overview - Alkaloids -an overview by Advanced Botany 29 views 3 weeks ago 12 minutes, 20 seconds - Alkaloids, are products of secondary metabolism of plants defined as natural compounds with a basic character—containing one ...

Classification of alkaloid compounds based on subring skeleton (SRS) - Classification of alkaloid compounds based on subring skeleton (SRS) by TogoTV 844 views 6 years ago 20 minutes - NIG International symposium 2017, Commemorating the 30th Anniversary of DDBJ was held in Mishima Citizens Cultural Hall in ...

12 Pyrrolizidine alkaloids - 12 Pyrrolizidine alkaloids by iteipmai 2,048 views 6 years ago 22 minutes - ... whether or not you were wide enough awake was to start by talking about Curtis Dean **alkaloids**, the topic that everybody knows ...

Class (45) = Alkaloids (Part 01) | Introduction to Alkaloids (Occurence, Distribution & Uses) - Class (45) = Alkaloids (Part 01) | Introduction to Alkaloids (Occurence, Distribution & Uses) by Solution-Pharmacy 166,152 views 4 years ago 18 minutes - ALKALOID, An **alkaloid**., any of a class of naturally occurring organic nitrogen-containing bases. **Alkaloids**, have diverse and ...

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