

Name of Journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 63592

Manuscript Type: MINIREVIEWS

Targeting of elevated cell surface phosphatidylserine with saposin C-dioleoylphosphatidylserine nanodrug as an individual or combination therapy for pancreatic cancer

Phosphatidylserine-selective therapies for pancreatic cancer

Abstract

Pancreatic cancer is one of the deadliest of cancers with a five-year survival of roughly 8%. Current therapies are: surgery, radiation and chemotherapy. Surgery is curative only if the cancer is caught very early, which is rare, and the latter two modalities are only marginally effective and have significant side effects. We have developed a nanosome comprised of the lysosomal protein, saposin C (SapC) and the acidic phospholipid, dioleoylphosphatidylserine (DOPS). In the acidic tumor

Match Overview

1	Internet 112 words crawled on 14-Dec-2020 tgh.amegroups.com	3%
2	Crossref 105 words Olugbenga Olowokure, Xiaoyang Qi. "Pancreatic cancer: ... urrent standards, working towards a new therapeutic appro	3%
3	Crossref 66 words Kombo F. N'Guessan, Harold W. Davis, Zhengtao Chu, Su brahmanya D. Vallabhapurapu et al. "Enhanced Efficacy of	2%
4	Internet 52 words crawled on 06-Jul-2020 www.freepatentsonline.com	1%
5	Internet 50 words crawled on 16-Jul-2020 diabetestalk.net	1%
6	Internet 43 words crawled on 16-Jul-2020 molecular-cancer.biomedcentral.com	1%
7	Internet 42 words crawled on 14-Dec-2020 www.mskcc.org	1%
8	Internet 33 words crawled on 14-Dec-2020 www.cancer.org	1%
	Crossref 32 words	10%



ALL

IMAGES

VIDEOS

725 Results

Any time ▾

(PDF) SapC-DOPS – a Phosphatidylserine-targeted ...

<https://www.researchgate.net/publication/338489908...>

PDF | Phosphatidylserine (PS) is normally located in the inner leaflet of the membrane bilayer of healthy cells, however it is expressed at high levels... | Find, read and cite all the research ...

SapC-DOPS – a Phosphatidylserine-targeted Nanovesicle for ...

<https://biosignaling.biomedcentral.com/articles/10.1186/s12964-019-0476-6> ▾

Jan 09, 2020 · Phosphatidylserine (PS) is normally located in the inner leaflet of the membrane bilayer of healthy cells, however it is expressed at high levels on the surface of cancer cells. This has allowed for the development of selective therapeutic agents against cancer cells (without affecting healthy cells). SapC-DOPS is a PS-targeting nanovesicle which effectively targets and kills several cancer ...

Cited by: 8

Author: Kombo F. N'Guessan, Priyankaben H. Pa...

Publish Year: 2020

Phosphatidylserine: A cancer cell targeting biomarker ...

<https://www.sciencedirect.com/science/article/pii/S1044579X17300585>

Oct 01, 2018 · 2. PS as a cancer biomarker. The prominent acidic phospholipids in mammalian cells are PS (8.5%), phosphatidic acid (1.5%) and phosphatidylinositol (1.0%) in erythrocytes .PS is an anionic immunosuppressive phospholipid which is normally present in the inner leaflet of the cell membrane (internal surface). PS externalizes due to apoptosis, injury and hemostasis that activates the ...

Cited by: 79

Author: Bhupender Sharma, Shamsher S. Kanwar

Publish Year: 2017

Targeting phosphatidylserine for Cancer therapy: prospects ...

<https://www.thno.org/v10p9214.htm> ▾

164. N'Guessan KF, Patel PH, Qi X. Sapc-dops-a phosphatidylserine-targeted nanovesicle for selective cancer therapy. Cell Commun Signal. 2020;18(1):6 165. De M, Ghosh S, Sen T, Shadab M, Banerjee I, Basu S. et al. A novel therapeutic strategy for cancer using phosphatidylserine targeting stearylamine-bearing cationic liposomes. Mol Ther Nucleic ...

Cited by: 1

Author: Wenguang Chang, Hongge Fa, Dandan Xi...

Publish Year: 2020

Enhanced Efficacy of Combination of ... - Molecular Therapy



ALL

IMAGES

VIDEOS

112 Results

Any time ▾

(PDF) SapC-DOPS – a Phosphatidylserine-targeted ...

<https://www.researchgate.net/publication/338489908...>

Phosphatidylserine: A **cancer cell targeting** biomarker. ... **saposin C-dioleoylphosphatidylserine** ... suggesting that SapC-DOPS can be used as a **combination therapy** for **cancer** cells with high PS ...

(PDF) Biotherapy of Brain Tumors with Phosphatidylserine ...

<https://www.researchgate.net/publication/343871506...>

We have developed a drug, **saposin C-dioleoylphosphatidylserine** (SapC-DOPS), that selectively targets **cancer** cells by honing in on this **surface PS**. ... **elevated cell surface PS**, ... **Cancer therapy** ...

Phosphatidylserine: A cancer cell targeting biomarker ...

<https://www.sciencedirect.com/science/article/pii/S1044579X17300585>

Oct 01, 2018 · 2. PS as a **cancer** biomarker. The prominent acidic phospholipids in mammalian cells are PS (8.5%), phosphatidic acid (1.5%) and phosphatidylinositol (1.0%) in erythrocytes .PS is an anionic immunosuppressive phospholipid which is normally present in the inner leaflet of the **cell** membrane (internal **surface**). PS externalizes due to apoptosis, injury and hemostasis that activates the ...

Cited by: 79

Author: Bhupender Sharma, Shamsheer S. Kanwar

Publish Year: 2017

(PDF) Targeting and Cytotoxicity of SapC-DOPS Nanovesicles ...

<https://www.researchgate.net/publication/257757244...>

We have developed a nanovesicle, **saposin C-dioleoylphosphatidylserine** (SapC-DOPS), that is therapeutic against a variety of **cancer** types with efficacy directly correlated to **surface** ...

Imaging and Therapy of Pancreatic Cancer with

[ALL](#)[IMAGES](#)[VIDEOS](#)[MAPS](#)[NEWS](#)[SHOPPING](#)

126 Results

Any time ▾

[\(PDF\) SapC-DOPS – a Phosphatidylserine-targeted ...](#)

<https://www.researchgate.net/publication/338489908...>

Phosphatidylserine (PS) is normally located in the inner leaflet of the membrane bilayer of healthy **cells**, however it is expressed at **high** levels on the **surface** of **cancer cells**.

[Phosphatidylserine: A cancer cell targeting biomarker ...](#)

<https://www.sciencedirect.com/science/article/pii/S1044579X17300585>

Oct 01, 2018 · 2. PS as a **cancer** biomarker. The prominent acidic phospholipids in mammalian **cells** are PS (8.5%), phosphatidic acid (1.5%) and phosphatidylinositol (1.0%) in erythrocytes .PS is an anionic...

Cited by: 79

Author: Bhupender Sharma, Shamsheer S. Kanwar

Publish Year: 2017

[\(PDF\) Targeting and Cytotoxicity of SapC-DOPS Nanovesicles ...](#)

<https://www.researchgate.net/publication/257757244...>

Phosphatidylserine (PS) is normally located in the inner leaflet of the membrane bilayer of healthy **cells**, however it is expressed at **high** levels on the **surface** of **cancer cells**.

[\[PDF\] Enhanced Efficacy of Combination of ... - Home: Cell Press](#)

<https://www.cell.com/molecular-therapy-family/...>

have abnormally **high surface phosphatidylserine** (PS), a phospho-lipid generally located on the inner leaflet of the **cell** membrane. **Saposin C-dioleoylphosphatidylserine** (SapC-DOPS) is a biologic anticanc...

[\(PDF\) Biotherapy of Brain Tumors with Phosphatidylserine ...](#)

<https://www.researchgate.net/publication/343871506...>

Aug 25, 2020 · In general, viable GBM **cells** exhibit **elevated phosphatidylserine** (PS) on their membrane **surface** compared to healthy **cells**. We have developed a drug, **saposin C-dioleoylphosphatidylserine** ...

[Detection of cancer cells using SapC-DOPS nanovesicles ...](#)

<https://molecular-cancer.biomedcentral.com/...>

May 10, 2016 · Unlike normal **cells**, **cancer cells** express **high** levels of **phosphatidylserine** on the extracellular leaflet of their **cell** membrane. Exploiting this characteristic, our lab developed a therapeuti...

[Enhanced Efficacy of Combination of ... Molecular Therapy](#)