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Basic study

Effect of photodynamic therapy using (17R, 18R)-2-(1-Hexyloxyethyl)-2-devinyl chlorine E6 trisodium salt on pancreatic cancer *in vitro* and *in vivo*

Shen YJ *et al.* YLG-1-induced PDT on pancreatic cancer

Yu-Jie Shen, Jia Cao, Fang Sun, Xiao-Lei Cai, Ming-Ming Li, Nan-Nan Zheng, Chun-Ying Qu, Yi Zhang, Feng Shen, Min Zhou, Ying-Wei Chen, Lei-Ming Xu

Abstract

AIM

To investigate the antitumor effects and underlying mechanisms of (17R, 18R)-2-(1-Hexyloxyethyl)-2-devinyl chlorine E6 trisodium salt (YLG-1)-induced photodynamic therapy (PDT) on pancreatic cancer *in vitro* and *in vivo*.

METHODS

YLG-1 is a novel photosensitizer extracted from spirulina. Its phototoxicity, cellular uptake and localization, reactive oxygen

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作者: R Penjweini - 2016 - 被引用次数: 13 - 相关文章

2016年9月22日 - Evaluation of the 2-(1-Hexyloxyethyl)-2-devinyl pyropheophorbide (HPPH) mediated photodynamic therapy by macroscopic singlet oxygen modeling. ... predicting the PDT outcome and a clinically relevant tumor re-growth endpoint. ... are tracked following the treatment and compared with the dose metrics.

2-[1-hexyloxyethyl]-2-devinyl pyropheophorbide-a (HPPH) in a nude ...

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作者: J Lobel - 2001 - 被引用次数: 66 - 相关文章

2-[1-hexyloxyethyl]-2-devinyl pyropheophorbide-a (HPPH) in a nude rat glioma model: ... STUDY DESIGN/MATERIALS AND METHODS: We performed in vivo ... We also studied HPPH pharmacokinetics and PDT effects in nude rats with brain ... HPPH concentrations in normal brain, BAT and tumor were determined using ...

Population Pharmacokinetics of the Photodynamic Therapy Agent 2 ...

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Photodynamic therapy is an effective and often cur | David A. Bellnier, ... Therapy Agent 2-[1-Hexyloxyethyl]-2-devinyl Pyropheophorbide-a in Cancer Patients ... was observed, mostly in patients treated with the highest dose of HPPH, 6 mg/m² ... reacting 2-(1-bromoethyl)-2-devinylpyropheophorbide-a with (sec)alcohols ...

[PDF] Dye Sensitizers for Photodynamic Therapy - MDPI

www.mdpi.com/1996-1944/6/3/817/pdf ▼ 翻译此页

作者: AB Ormond - 2013 - 被引用次数: 316 - 相关文章

2013年3月6日 - sensitizer has been approved for PDT applications, a small number of ... visible light, with or without a photosensitizer—A molecule capable of Purlytin™, 13), and N-aspartyl chlorin e6



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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5159301/> - 翻译此页

作者: R Penjweini - 2016 - 被引用次数: 13 - 相关文章

2016年9月22日 - In type II PDT, which is the focus of this paper, the triplet can transfer its energy directly ... changes in ϕ or initial oxygenation ($[^3\text{O}_2]_0$) may have large PDT effects [18]. ... The correlation of $[^1\text{O}_2]_{\text{rx}}$ with outcomes of 2-(1-Hexyloxyethyl)-2-devinyl pyropheophorbide ... 2.1 Mouse tumor models for in vivo studies.

Dye Sensitizers for Photodynamic Therapy - NCBI - NIH

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5512801/> - 翻译此页

作者: AB Ormond - 2013 - 被引用次数: 333 - 相关文章

Published online 2013 Mar 6. doi: 10.3390/ma6030817 ... This review focuses on the nature of PDT, dye sensitizers that have been For PDT using Photofrin[®] as the photosensitizer, an argon pumped dye laser ... One negative effect is photobleaching [2]. HPPH is 2-(1-hexyloxyethyl)-2-devinyl pyropheophorbide ...

Photodynamic therapy with 3-(1'-hexyloxyethyl) pyropheophorbide ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4499022/> - 翻译此页

作者: G Shafirstein - 2016 - 被引用次数: 16 - 相关文章

2015年6月29日 - HPPH-PDT can be safely used to treat early-stage laryngeal cancer, with potential efficacy. ... can be safely and effectively preceded or followed with surgery and/or RT.1, 17, 18 ... The chlorin-based compound, 3-(1'- hexyloxyethyl) ... HPPH was used at a fixed, previously determined dose of 4 mg/ m², ...

a-mediated photodynamic therapy: Topics by Science.gov

<https://www.science.gov/topicpages/a/a-mediated+photodynamic+therapy>

Type II photodynamic therapy (PDT) is based on the photochemical ... For this reason, 2-(1-hexyloxyethyl)-2-devinyl pyropheophorbide-a (HPPH)-mediated PDT was Methods: Using a rat model of human breast cancer (MT-1)-derived bone Fotolon[®] is a pure form of Chlorin e6 trisodium salt developed by Apocare ...

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作者: AB Ormond - 2013 - 被引用次数: 334 - 相关文章

Published online 2013 Mar 6. doi: 10.3390/ma6030817 ... meta-tetra(hydroxyphenyl)chlorin (m-THPC), N-aspartyl chlorin e6 (NPe6), and ... PDT involves the use of light exposures to transform a sensitizer from the One negative effect is photobleaching [2]. HPPH is 2-(1-hexyloxyethyl)-2-devinyl pyropheophorbide ...

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Investigating the impact of oxygen concentration and blood flow ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4955668/> - 翻译此页

作者: R Penjweini - 2016 - 被引用次数: 10 - 相关文章

2016年3月1日 - Type II photodynamic therapy (PDT) is used for cancer treatment ... for 2-(1-Hexyloxyethyl)-2-devinyl pyropheophorbide (HPPH)-mediated PDT by ... Keywords: tissue oxygenation, blood flow changes, PDT, in vivo mice ... of in vitro-maintained cells), the mice received 0.25 mg/kg HPPH via tail vein injection.

Anticancer Efficacy of Photodynamic Therapy with Lung Cancer ...

<https://www.jove.com/.../anticancer-efficacy-photodynamic-therapy-with-lu...> - 翻译此页


8:03

2016年12月1日 - 作者: JE Chang - 2016 - 被引用次数: 5 - 相关文章

Photodynamic therapy (PDT) is an alternative choice for lung cancer treatment. ... Both in vitro and in vivo ...