

## عنوان مقاله:

Introducing ICD-85 (Venom derived peptides) as an anti-cancer agent

## محل انتشار:

هشتمین کنگره بین المللی سرطان پستان (سال: 1391)

تعداد صفحات اصل مقاله: 1

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## خلاصه مقاله:

The three major forms of cancer treatment are surgery, radiation therapy and chemotherapy. But most cancer patients treated with these three means remains incurable. Our studies revealed an inhibitory effect of ICD-85 (Venom derived peptides) on breast cancer cell line MDA-MB231. ICD-85 was also confirmed by in vivo studies to suppress the breast tumor in mice. The characteristic DNA ladder formation of ICD-85 treated cells in agarose gel electrophoresis confirmed that ICD-85 inhibited the cancer cell proliferation by inducing cell apoptosis. Also, the apoptosis-induction mechanism by ICD-85 on cancer cells was found through activation of caspase-8. Based on the results obtained in another study, ICD-85 has an anti-angiogenic activity with dose-dependent manner. Encapsulation of ICD-85 with sodium alginate nanoparticles reduced its necrotic effect on primary lamb kidney cells. Absorption ratio of I<sup>131</sup>I labeled ICD-85 in breast tumor versus various organs in mice after 45 min indicated the maximum accumulation of ICD-85 in breast tumor and later in kidney. Based on these studies the ICD-85 can be considered as a new agent in cancer treatment and we hope to get attention of oncologists for phase 0 of clinical trial in cancer patients.

## کلمات کلیدی:

ICD-85, Anticancer, MDA-MB231, Breast tumor

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