

## عنوان مقاله:

In vitro Evaluation of the Antiviral Activity and Cytotoxicity Effect of *Holothuria leucospilota* Sea Cucumber Extracts from the Persian Gulf

## محل انتشار:

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## خلاصه مقاله:

**Aims** Antiviral activity and cytotoxicity effect of methanol and diethyl ether extracts from different parts of sea cucumber (*Holothuria leucospilota*) against HIV-1 were assessed on human oral epidermoid carcinoma cells (KB) and Human embryonic kidney 293T cells (HEK293T). **Materials & Methods** Sea cucumber was collected at a depth of 10-30 m of Larak Island (Persian Gulf). Extracts were prepared by diethyl ether and methanol solvents. The antiviral activity of each extract was evaluated by inhibition of single-cycle replicable HIV-1 (SCR HIV- 1) p24 Core antigen production in HeLa cells and cellular toxicity of different extracts were assessed, using a cell proliferation XTT kit. **Findings** Antiviral activity of each extract showed that some concentrations were able to inhibit the replication of HIV-1. Diethyl ether extract of body wall with 2.79 TI index displayed the highest antiviral activity as well as less cytotoxicity effect. **Conclusion** This study showed that crude extracts of *Holothuria leucospilota*, especially methanol and diethyl ether extracts of digestive organs and body wall had good cytotoxicity effect and antiviral activity, respectively

## کلمات کلیدی:

Sea Cucumber; Antiviral; Cytotoxicity; Persian Gulf; *Holothuria Leucospilota*

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