

عنوان مقاله:

Anovel modified pamam denderimer to facilitate trail gene delivery into colon cancer cell line

محل انتشار:

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خلاصه مقاله:

Polyamidoamine (PAMAM) is the most extensively applied polymeric vector in gene delivery. TNF-related apoptosis-inducing ligand (TRAIL) is considered as a promising anticancer agent that induces apoptosis in multiple tumor cell types while it does not affect the most normal cells. In the current study, PAMAM (G4) was modified with alkyl chains, PEG and cholesterylchloroformate to promote its ability to transfer the plasmid TRAIL gene into colon cancer cell line. The results showed that G5[(10C-PEG-3%)(chol-7%)] had the highest transfection efficiency with low cytotoxicity. This study proved the potential utility of cholesterol-grafted PAMAM dendrimers with alkyl-PEG modification for efficient gene transfer into cancerous cells

کلمات کلیدی:

Colon Cancer, Gene and Cancer, Solid Tumors, Drugs and Cancer, Chemotherapy

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