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Title (English) Cellular retention of ¹²⁵I-labeled EGF-dextran		
Title (Swedish)		
Abstract A tumor cell specific targeting molecule was constructed as a conjugate between epidermal growth factor, EGF, and dextran. EGF is the natural ligand of the EGF receptor that is over-expressed in some cancers and acts as the targeting part of the conjugate. Dextran is a glucose polymer that is not degraded by mammalian cells and can thus act as an effective carrier molecule, carrying radioactive nuclides for killing the tumor cell. The conjugate was tested for binding kinetics, specificity, internalization, retention and recharging. It was found that the binding was specific, most radioactivity was internalized and 20% of the initial radioactivity was left after five days when ~60% of the radioactivity was located on the dextran part of the conjugate.		
Keywords EGF, dextran, tumor targeting, residualizing label, retention		
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