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Title (English) Characterization of the interaction between HAMLET and alpha-actinin-4			
Title (Swedish)			
Abstract <p>HAMLET (human α-lactalbumin made lethal to tumour cells) is a protein-lipid complex that kills tumour cells but leaves healthy, differentiated cells unaffected. In this study we show that HAMLET bound to α-actinin-4 (αA4) in tumour cell extracts and co-localized with αA4 in the cell periphery. The interaction was characterized using synthetic peptides covering most of the αA4 molecule. HAMLET showed specificity for the actin domain and the spectrin repeats, suggesting that HAMLET might interfere with the binding of αA4 ligands. We discuss if this mechanism might be important for tumour cell detachment in response to HAMLET.</p>			
Keywords <p>HAMLET, alpha-actinin-4, tumour cells, cell death, peptide binding assay</p>			
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