

Abstrakt anglicky

NK cells belong to the population of cells which are able to cytotoxic kill certain tumor and cells infected by viruses. This bachelor thesis focuses on the rat's NK cell receptor, especially rNKR-P1A. This protein belongs to the activating receptors and is able to activate the cytotoxic function of NK cells. Physiological ligand and three-dimensional structure of this protein has not been resolved yet. The aim of this work was optimization of production rNKR-P1A in minimal medium and thereafter producing isotope-labeled proteins. Isotope-labeled proteins could contribute to solving the three-dimensional structure of this rat receptor by using NMR methods.