

Abstrakt v anglickém jazyce

NK cells represent a population of lymphocytes which are able to kill certain tumor cells or virally infected cells. The subject of the diploma thesis is a mouse NK cell receptor mNKR-P1C^{BALB} and a human leukocyte receptor hAICL. The mNKR-P1C^{BALB} belongs to the activating receptors and is able to activate the cytotoxic functions of NK cells. The hAICL receptor is a ligand to the NKp80 which is an activating receptor of NK cells. Interaction between these two proteins leads to the activation of effector functions of NK cells as well. The aim of this work was the preparation of the recombinant extracellular parts of receptors mNKR-P1C^{BALB} and hAICL, the optimization of their *in vitro* refolding and the characterization of proteins using mass spectrometry. The proteins samples will be used for further structural study of the extracellular parts of these leukocytes receptors.