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An Immunotoxin for the Depletion of Autoreactive B Cells in MS : Design, expression, and characterization of an autoimmunotoxin for the specific depletion of autoreactive B cells in multiple sclerosis

By Sigrun Klandt

VDM Verlag Aug 2010, 2010. Taschenbuch. Condition: Neu. This item is printed on demand - Print on Demand Neuware - The aim of the presented work was the design, production, and characterisation of a novel immunotoxin in the context of MS. Proteins were expressed in a prokaryotic and eukaryotic system, respectively. Stable producing 293T cell populations were established for the reference protein PLP that showed a good expression yield and a high purity after purification was obtained. This is the first time that a functional PLP fusion protein was expressed in 293T cells and purified from cell supernatant. The characterisation of the immunotoxin PLP-ETA comprised the verification of the functionality of the expressed protein in the context of the binding specificity and toxicity on a PLP- specific hybridoma cell line. This hybridoma cell line that served as a very feasible in vitro B cell model is the first step in the determination of the functionality of an immunotoxin. Documenting a high binding specificity and specific toxicity of this novel PLP based immunotoxin on a PLP- reactive hybridoma cell line, this work provides a contribution to the B cell specific therapies with immunotoxins in MS. 80 pp. Englisch.


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