



BACKGROUND

Type 1 Diabetes Mellitus (T1DM) is an autoimmune disease characterized by chronic hyperglycemia that lacks a curative treatment. Restoration of the immune tolerance to the primary self-antigen (pSAg) of an autoimmune disease is the ideal approach to cure patients. However, to date, successful tolerization approaches for T1DM have not become available. Simian Virus 40 (SV40) gene delivery vectors possess safety, non-immunogenicity, and tolerogenic properties, making them highly effective in inducing tolerance to pSAgs of autoimmune diseases. Consequently, SV40 vectors provide a strong foundation for developing a curative tolerization therapy for T1DM^a.

NIMVECTM PLATFORM SYSTEM

Nimvec[™] = non immunogenic SV40-based viral vector^b Circular double-stranded DNA genome. Does not integrate in the host's genome. No pre-existing immune memory in humans. Viral Proteins (VPs) are not expressed in target cells Non-immunogenic, allowing re-administration AM510 = NimvecTM vector encoding the pSAg proinsulin WT SV40 AM510 ~3354bp SV40 VPs AM510 = Produced in SuperVero[™] cell line^c Large T antigen NIMVEC expression FAKING SCIENC

Tolerization Therapy for Treating Type 1 Diabetes Mellitus

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Abstract 872-P - Disclosure: Henk Streefkerk and Peter de Haan are consultants of Amarna Therapeutics. Contact: henk.streefkerk@amarnatherapeutics.com

