Treatment Activity of a Novel Nano-siRNA Delivery System on Diabetes by Reducing the Content of AGEs

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SUMMARY. In this study, a new nano-siRNA delivery system loaded with anti-ESR1 siRNA was designed and synthesized, and its effect in the treatment of diabetes was evaluated. Firstly, the RT-PCR was conducted and the relative expression of the RAGE in the endothelial cells was investigated. Then, releasing of the VEGF into the plasma after the new system treatment was measured with ELISA assay.

RESUMEN. En este estudio, se diseñó y sintetizó un nuevo sistema de administración de nano-ARNip cargado con ARNip anti-ESR1 y se evaluó su efecto en el tratamiento de la diabetes. En primer lugar, se realizó la RT-PCR y se investigó la expresión relativa de RAGE en las células endoteliales. Luego, se midió la liberación del VEGF en el plasma después del tratamiento del nuevo sistema con un ensayo ELISA.