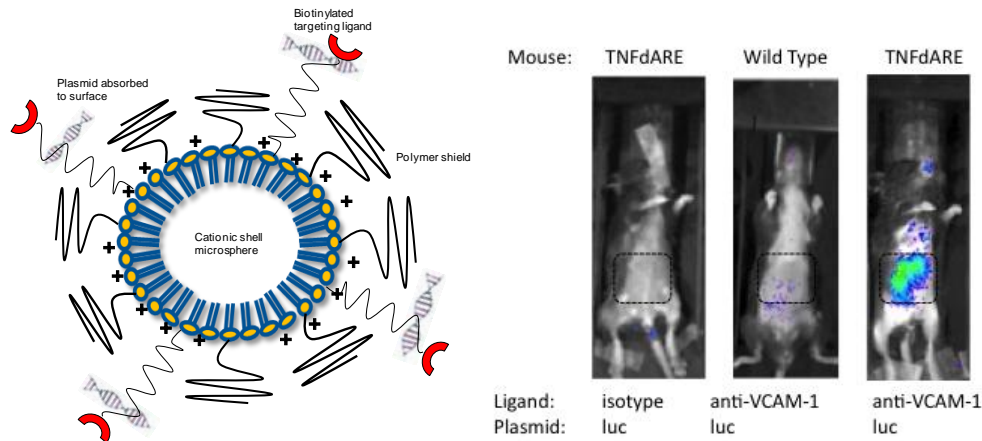


Targesphere[®] SA Targetable Acoustic Transfection Agent

Catalog Number: TS-602 (2 x 1.0 ml vial)

Applications

Targesphere SA is a cationic delivery agent that can be used for molecularly targeted *in vitro* and *in vivo* transfection. The product is a dispersion of cationic microspheres, consisting of a core of biocompatible gas encapsulated by a lipid/polymer shell. The outer surface of the shell contains a layer of streptavidin. Plasmid, siRNA and other nucleic acid payloads can be coupled to the surface of the agent by simple incubation. The agent can be targeted for cell-specific transfection via a biotinylated targeting ligand bound to the streptavidin shell. Intracellular delivery of the payload is mediated by activation of Targesphere SA agents with acoustic energy, using an ultrasound scanner or sonoporator.



Left: Targesphere SA loaded with a luciferase-coding plasmid and conjugated with anti-VCAM-1. Right: Targeted transfection in TNFdARE mouse model of inflammatory bowel disease. Isotype control mouse; Healthy mouse; Targesphere SA mouse with strong luciferase signal, confined to the sonoporated region,

- **Only method to allow cell-specific targeted transfection**
- **Applicable for *in vivo* or *in vitro* ultrasound-mediated transfection**
- **Designed for rapid conjugation of DNA or RNA payload**
- **Easy to use, ready to administer directly from vial**
- **Non-invasive compared to electroporation**

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