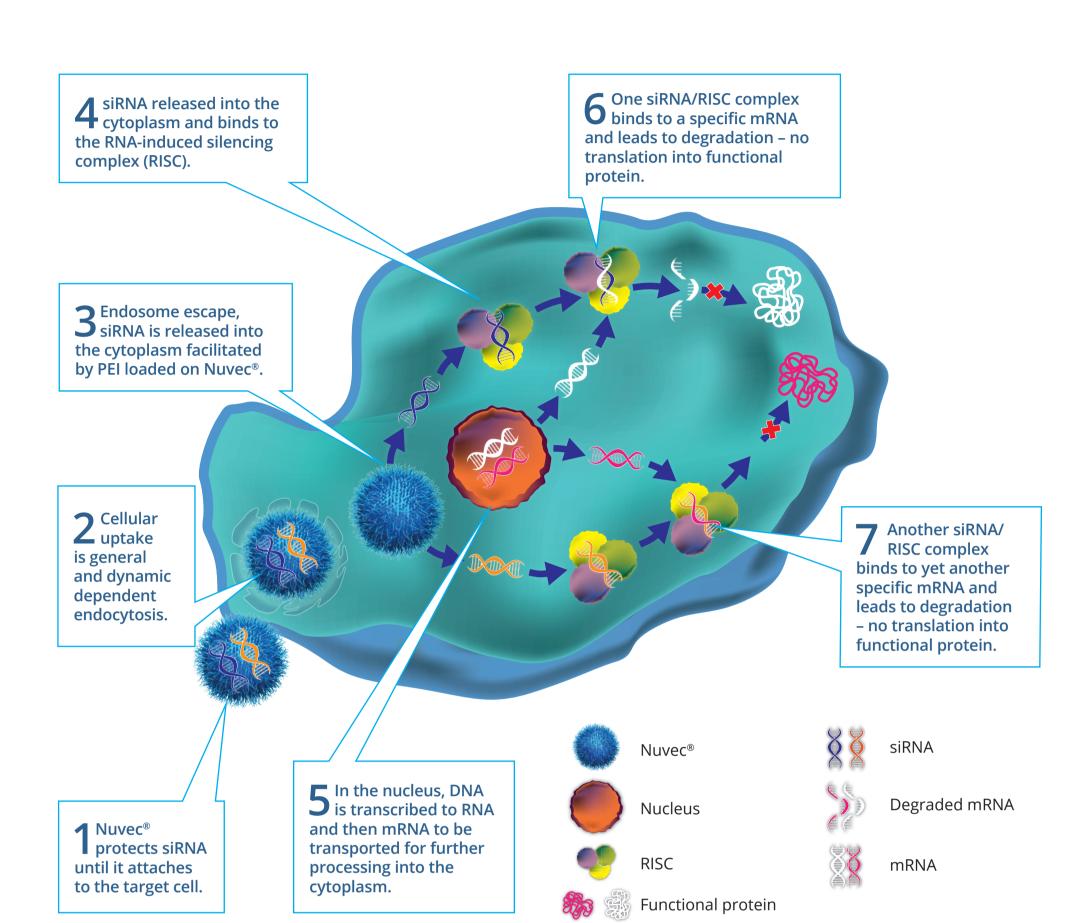


siRNA transfection with Nuvec® and subsequent inhibition of HARMA mRNA translation

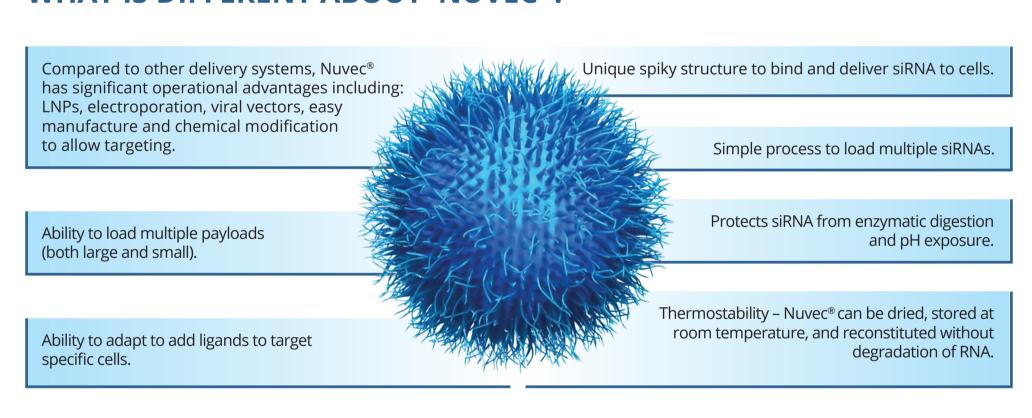
N4 Pharma is a pre-clinical stage specialist pharmaceutical company developing a unique technology, Nuvec®, a novel silica nanoparticle designed to deliver siRNA as therapeutics. Nuvec® is available to license to partners for areas such as cancer treatments and gene therapy. Specifically, Nuvec® is suited for the delivery of more than one siRNA into the same cell.

HOW DOES NUVEC® WORK?

- Nuvec® has a unique irregular structure that binds single or multiple siRNA to the filamentous structure of the particle and after endocytosis, delivers the load into the cell.
- There, after endosomal escape, the particle releases the siRNA into the cytoplasm to generate the desired response.
- Nuvec® is designed to overcome some of the drawbacks of existing delivery systems, which can negatively impact treatment effectiveness and safety profile.



WHAT IS DIFFERENT ABOUT NUVEC®?

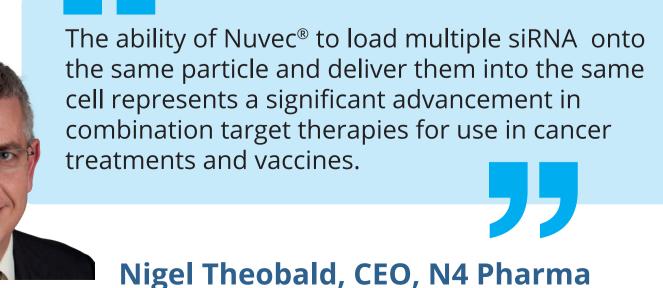


Silencing protein expression with siRNA loaded onto Nuvec®

- siRNA are increasingly in development as therapeutics, particularly in oncology.
- At present, delivery of multiple siRNAs would require multiple carriers, decreasing the probability of transfecting the same cell with more than one siRNA, thus hitting multiple aspects of a cellular pathway is less likely.
- Delivery of two siRNA acting on two complementary pathways in the same cell has the potential to provide an improved clinical response with fewer adverse events compared to conventional chemotherapy.
- We recently completed initial testing in vitro on loaded Nuvec® with two generic siRNA probes:
- An in vitro dose response was seen that was comparable to lipofectamine transfection.
- In addition, loading Nuvec® with both siRNA together also demonstrated the ability to still silence each gene in the same cell.

• GFP (Green luorescent Protein) + EHMT-2 (Euchromatic Histone Lysine Methyltransferase 2) loaded at the same time.

A unique platform for developing novel combination therapies for cancer and vaccine treatments.



Nuvec is also available to license to partners for oligonucleotide vaccine development.