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An Innovative Lipid for the Formulation of Lipid Nanoparticles (LNPs)

NOF CORPORATION would like to announce the launch of innovative lipid for nucleic acid and gene delivery, COATSOME[®] SS-OP, for the formulation of lipid nanoparticles (LNPs). COATSOME[®] SS-OP can make LNPs having high efficiency of intracellular delivery. COATSOME[®] SS-OP has phenyl ester bonds which enhance degradability of own structure in intracellular environment, tertiary amino groups which induce endosomal escape, and a disulfide bond which cleaves in reductive environment.

Key advantages of COATSOME[®] SS-OP are:

- pDNA, mRNA and siRNA can be encapsulated with high efficiency.
- Enhanced degradability in intracellular environment makes high delivery efficiency of nucleic acids.
- Nucleic acids can be delivered with high selectivity to specific tissues such as liver, lymph node, spleen or tumor.

The high degradability of COATSOME[®] SS-OP in intracellular environment improves performance and safety of nucleic acid drugs and gene therapy drugs.

For more information, contact our regional offices.

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