



HSPC-CHOL-mPEG2000-DSPE LNP with (NH₄)₂SO₄ gradient

Cat. No. LNP-199

Lot. No. (See product label)

Product Name	HSPC-CHOL-mPEG2000-DSPE LNP with (NH ₄) ₂ SO ₄ gradient
Alias	Research grade ammonium sulfate gradient lipid nanoparticle precursor
Size	10 mg; 20 mg; 50 mg
Appearance	Milky white homogeneous suspension
Solubility	It can be dispersed/diluted in isotonic buffer (such as HEPES buffered saline, PBS) to form a stable colloidal dispersion system
Description	HSPC-CHOL-mPEG2000-DSPE lipid nanoparticles with ammonium sulfate gradient are PEGylated long-circulating liposome platforms designed for remote loading of weakly basic drugs. The PEG coating extends circulation time while the ammonium sulfate gradient enables high-efficiency active drug encapsulation, achieving loading efficiencies typically above 95%. Used as a standardized platform for long-circulating nanomedicine development and drug release kinetics research.
Applications	Study on the mechanism of drug release and distribution in vitro
Storage	4°C, protected from light
Purity	95%+
Shelf Life	1 Year
Shipping Condition	Low temperature transport

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