



ICG@PLGA@LNP, indocyanine green loaded polylactic acid-co-glycolic acid-lipid nanoparticles

Cat. No. R-LNP-PL

Lot. No. (See product label)

Alias	ICG-loaded PLGA-Lipid Nanoparticles
Appearance	Solution or lyophilized powder
Molecular Formula	N/A
Solubility	Soluble in organic solvents
Storage	-20°C, protected from light
Purity	95%+
Shelf Life	1 year
Shipping Condition	low temperature transport
Application	drug delivery system
Specification	10mg : Inquiry 25mg : Inquiry 50mg : Inquiry
Description	ICG@PLGA@LNP is an exquisitely structured nanocomposite system composed of multiple functional components. Among them, ICG (Indocyanine Green) is the core functional substance, a near-infrared fluorescent dye used for in vivo applications, and has optical properties. Under the excitation of near-infrared light (780-830nm), ICG can emit strong fluorescence, which can realize the visualization of deep tissues and be used for biological tissue imaging. At the same time, ICG has photothermal conversion capabilities and can efficiently convert light energy into heat energy under laser irradiation of a specific wavelength.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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PLGA is a commonly used biodegradable polymer. It has good biocompatibility and controllable degradation rate, and can effectively encapsulate ICG, improve the stability of ICG, and control the release rate of ICG. LNP (lipid nanoparticles) are built based on lipid materials such as phospholipids and serve as the outermost carrier. LNP not only further improves the biocompatibility of the entire complex, but also reduces its non-specific distribution in the body and prolongs blood circulation time. In addition, LNP has strong structural plasticity and can be connected to various targeting molecules through surface modification to enhance the targeting of the complex.

Supplier

Xi'an Ruixi

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