BIOTIN-LNP@ICG-DOX, biotin-lipid nanoparticles encapsulating indocyanine green-doxorubicin

Cat. No. R-ZB-0033

Lot. No. (See product label)

Alias	Biotin-labeled liposomes encapsulating ICG and doxorubicin
Appearance	Colloidal solution or suspension
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	compound delivery system
Specification	10mg：Inquiry 25mg：Inquiry 50mg：Inquiry
Description	BIOTIN-LNP@ICG-DOX integrates biotin, LNP, ICG and DOX into one using advanced nanotechnology. Biotin is a water-soluble vitamin that is unique in its ability to bind with avidin with ultra-high affinity. This characteristic enables it to accurately identify and bind avidin at the target site in the entire system, thereby achieving targeted delivery of the entire complex and improving the efficiency of drugs or other compounds reaching specific tissues or cells. LNP, as a carrier, plays a key role in the complex. It has excellent biocompatibility. After entering the organism, it is not likely to cause immune rejection and can coexist

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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	harmoniously with the body. At the same time, it has excellent stability and can effectively wrap and protect the compound molecules inside, such as ICG and DOX, to prevent them from being degraded or inactivated early during transportation. Moreover, by modifying the surface of LNP, targeted delivery of compounds can be further achieved, allowing the drug to accurately act on the lesion. As a fluorescent dye, ICG performs well in the near-infrared band and can emit strong fluorescence signals. With this feature, it can be used for fluorescence imaging, and the instrument can be used to monitor the distribution and metabolic processes of compounds in organisms in real time, providing key data support for research and optimization of treatment plans.
Supplier	Xi'an Ruixi

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