



LNP-CY7/Gln, lipid nanoparticle-encapsulated CY7-labeled Gln

Cat. No. R-QXC-CD05

Lot. No. (See product label)

Alias	CY7-Gln lipid nanoparticles
Appearance	solid or 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	bioimaging
Specification	10mg : Inquiry 25mg : Inquiry 50mg : Inquiry
Description	LNP@CY7/Gln is an innovative nano-preparation in which the near-infrared fluorescent dye CY7 and glutamine (Gln) are simultaneously encapsulated in lipid nanoparticles (LNP). The excitation wavelength of CY7 is about 750nm and the emission wavelength is about 770nm. With its near-infrared characteristics, it can penetrate deep biological tissues and reduce background fluorescence interference. It is especially suitable for in vivo imaging and in vivo experiments. Its high fluorescence quantum yield can generate strong fluorescence signals and has good photostability. It can maintain fluorescence performance

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under long-term illumination, ensuring the accuracy of experimental results. Glutamine, as an abundant free amino acid in the human body, plays a key role in cell metabolism, immune regulation, tissue repair and other processes. Lipid nanoparticles are composed of nanoparticles composed of a variety of lipids with good biocompatibility. They can not only protect CY7 and Gln from being degraded in complex biological environments and improve their stability, but also enhance the uptake of both by cells, allowing them to be transported to target cells or tissues more efficiently.

Supplier

Xi'an Ruixi

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