



## **LNP@TbCl<sub>3</sub>, lipid nanoparticle-encapsulated terbium trichloride**

Cat. No. R-ZZT

Lot. No. (See product label)

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Alias</b>              | Liposome encapsulated terbium chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Appearance</b>         | Light blue or colorless transparent liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Formula</b>  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Solubility</b>         | Soluble in organic solvents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>            | -20°C, protected from light                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>             | 95%+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Shelf Life</b>         | 1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Shipping Condition</b> | low temperature transport                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Application</b>        | bioimaging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Specification</b>      | 10mg : Inquiry<br>25mg : Inquiry<br>50mg : Inquiry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>        | LNP@TbCl <sub>3</sub> is an innovative formulation that encapsulates terbium trichloride (TbCl <sub>3</sub> ) in lipid nanoparticles (LNP). Terbium trichloride is an inorganic compound in the form of white powder with a molecular weight of 265.284. It has shown unique value in many fields, such as being used as a standard reagent in spectral analysis and also used in the preparation of terbium metal. Lipid nanoparticles are composed of a variety of lipid components with good biocompatibility and are in the form of nanoscale particles. Its wrapping of TbCl <sub>3</sub> can effectively protect TbCl <sub>3</sub> , avoid unnecessary reactions with other substances in complex |

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biological environments, improve its stability, and enhance the uptake efficiency of  $\text{TbCl}_3$  by cells. With the characteristics of LNP,  $\text{LNP@TbCl}_3$  can deliver  $\text{TbCl}_3$  to target cells or tissues more efficiently, and has potential application value in biomedical research, materials science and other fields. For example, in some studies, its characteristics are used to explore new treatment methods or prepare special functional materials.

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| Supplier | Xi'an Ruixi |
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