(R)-C12-200

Cat. No.: **SN-M-LM361**

Chemical Properties

Product Name	(R)-C12-200
Cat. No.	SN-M-LM361
Storage	Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Shipping	Shipping with blue ice/Shipping at ambient temperature.
Purity	98+%

Structure

[Product Image]

Biological Description

(R)-C12-200, an ionizable cationic lipid (pKa = 7.25) and isomer of C12-200, is utilized in forming lipid nanoparticles (LNPs) for delivering mRNA in vivo. When administered intravenously, LNPs containing (R)-C12-200 with mRNA encoding Cre recombinase result in a smaller increase in the percentage of tdTomato+ hepatocytes, endothelial cells, and Kupffer cells in the liver of Ai14 mice compared to LNPs with (S)-C12-200. Additionally, LNPs with (R)-C12-200 carrying mRNA for purine nucleoside phosphorylase (PNP), an E. coli enzyme that transforms fludarabine phosphate into the cytotoxic agent 2-fluoroadenine, prompt intratumoral PNP expression and diminish tumor volume in a FaDu head and neck squamous cell carcinoma (HNSCC) mouse xenograft model when fludarabine phosphate is co-administered.

Related Products / Keywords

- (R)-C12-200

This product is a research reagent and must not be used for clinical validation or human therapeutic use.