

Product Data Sheet

Product Name: C9-200
Cat. No.: GC92077

Chemical Properties

Cas. No.

Chemical Name 1,1'-((2-(4-(2-((2-(bis(2-hydroxynonyl)amino)ethyl)(2-hydroxynonyl)amino)ethyl)piperazin-1-yl)ethyl)azanediyl)bis(nonan-2-ol)

SMILES OC(CCCCCC)CN(CCN(CC(CCCCCC)O)CC(CCCCCC)O)CCN1CCN(CCN(CC(CCCCCC)O)CC(CCCCCC)O)CC1

Formula C₅₅H₁₁₅N₅O₅ M.Wt 926.5

Solubility Ethanol: Sparingly soluble: 1-10 mg/ml Storage -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

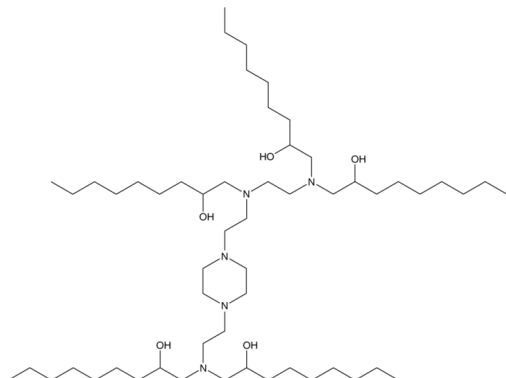
Caution: Product has not been fully validated for medical applications. For research use only.

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Product Data Sheet

Structure



Background

C9-200 is an ionizable cationic lipid that has been used in the formation of lipid nanoparticles (LNPs).¹ LNPs containing C9-200 and encapsulating mRNA encoding erythropoietin (EPO) increase serum EPO levels in mice. LNPs containing C9-200 and encapsulating mRNA encoding the Cas9 nuclease and small-guide RNA (sgRNA) targeting transthyretin (TTR) induce 3-fold higher hepatic insertion and deletion (indel) formation than LNPs containing C12-200 and encapsulating mRNA encoding Cas9 in mice.

References:

[1]. Mrksich, K., Padilla, M.S., Joseph, R.A., et al. Influence of ionizable lipid tail length on lipid nanoparticle delivery of mRNA of varying length. *J. Biomed. Mater. Res.* A112(9)1494-1505(2024).

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