

Product Data Sheet

Product Name: (S)-C12-200

Cat. No.: GC91502

Chemical Properties

Cas. No. 1226552-44-8

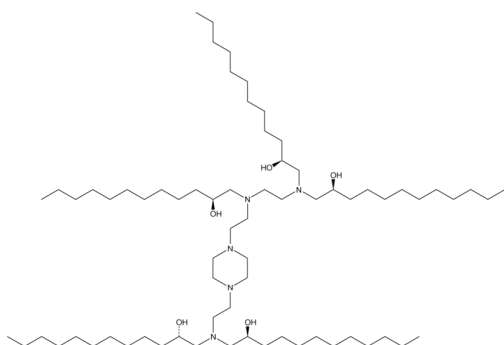
Formula $C_{70}H_{145}N_5O_5$ M.Wt 1137

Solubility Ethanol: Soluble 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.

Structure



Background

(S)-C12-200 is an ionizable cationic lipid ($pK_a = 7.12$) and an isomer of C12-200. [1] It has been used in the formation of lipid nanoparticles (LNPs) for the delivery of mRNA *in vivo*. Intravenous administration of LNPs containing (S)-C12-200 and encapsulating mRNA encoding Cre recombinase increase the percentage of tdTomato⁺ hepatocytes, endothelial cells, and Kupffer cells in the livers of Ai14 mice greater than (R)-C12-200-containing and Cre mRNA-encapsulating LNPs.

References:

[1]. Da Silva Sanchez, A.J., Zhao, K., Huayamares, S.G., et al. Substituting racemic ionizable lipids with stereopure ionizable lipids can increase mRNA delivery. *J. Control Release* 353:270-277 (2023).

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

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