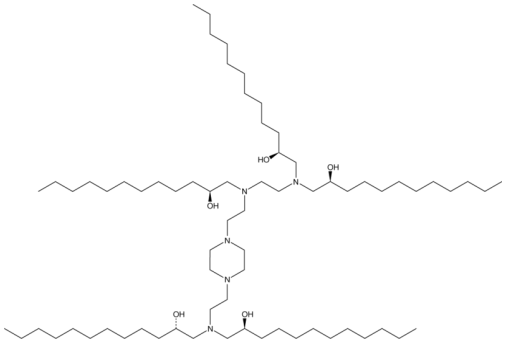
Product Data Sheet

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 deliveryJ. Control Release353270-277(2023).

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