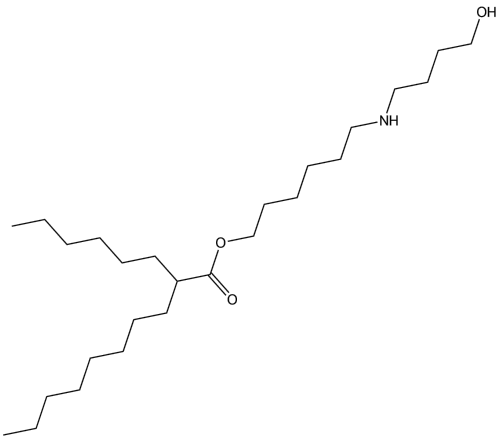
Product Data Sheet

Product Name: 6-((4-Hydroxybutyl)amino)hexyl 2-hexyldecanoate
Cat. No.: GC27892

Chemical Properties

Cas. No.	2644752-88-3		
Chemical Name	Decanoic acid, 2-hexyl-, 6-[(4-hydroxybutyl)amino]hexyl ester		
SMILES	CCCCCCCCC(CCCCCC)C(OCCCCCCNCCCCO)=O		
Formula	$C_{26}H_{53}NO_3$	M.Wt	427.70
Solubility	DMSO : 100 mg/mL (233.81 mM; Need ultrasonic)	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

6-((4-Hydroxybutyl)amino)hexyl 2-hexyldecanoate is a lipid, it can be used to synthesis nanomaterials. 6-((4-Hydroxybutyl)amino)hexyl provides the use of the nano-lipid particle as the key component in nucleic acid delivery, including the components of the delivery carrier[1].

References:

Caution: Product has not been fully validated for medical applications. For research use only.
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[1]. Hamilton Gregory Lawrence, et al. Nanomaterials comprising carbonates. WO2022140239. 2022.

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