

Product Data Sheet

Product Name: Lipid DIM1

Cat. No.: GC91617

Chemical Properties

Cas. No. 2820155-36-8

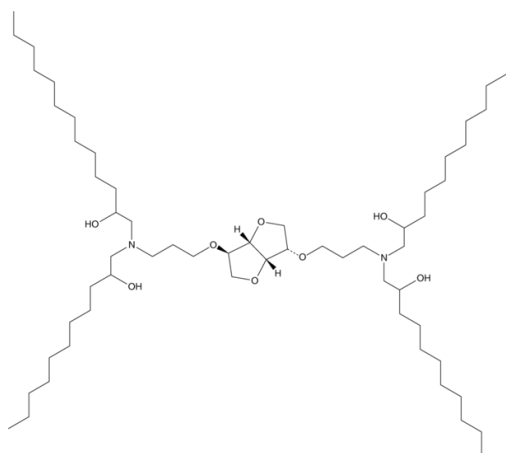
Formula $C_{60}H_{120}N_2O_8$ M.Wt 997.6

Solubility Chloroform: Sparingly soluble: 1-10 mg/ml, Ethanol: Soluble: ≥ 10 mg/ml, Methanol: Slightly soluble: 0.1-1 mg/ml Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

Lipid DIM1 is an ionizable cationic lipid that has been used in combination with other lipids in the formation of lipid nanoparticles (LNPs) for mRNA delivery *in vitro*.^[1] LNPs containing lipid DIM1 and encapsulating mRNA encoding a luciferase reporter induce luminescence in primary mouse adipose stem cells (ASCs).

References:

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

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[1].Xue, Y., Zhang, Y., Zhong, Y., et al.LNP-RNA-engineered adipose stem cells for accelerated diabetic wound healingNat. Commun.15(1)739(2024).

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