

Product Data Sheet

Product Name: PL1
Cat. No.: GC91578

Chemical Properties

Cas. No. 2274812-94-9

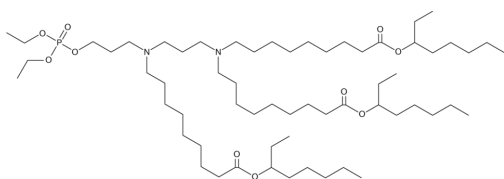
Formula $C_{61}H_{121}N_2O_{10}P$ M.Wt 1073.6

Solubility Chloroform: Soluble, Methanol: Slightly soluble 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

PL1 is a multi-tail ionizable cationic phospholipid that has been used in combination with other lipids in the formation of lipid nanoparticles (LNPs) for the delivery of mRNA.¹ LNPs containing PL1 and encapsulating mRNA encoding the co-stimulatory receptor CD137 or OX40 increase T cell antitumor immunity in various mouse xenograft models.

References:

[1]. Li, W., Zhang, X., Zhang, C., et al. Biomimetic nanoparticles deliver mRNAs encoding costimulatory receptors and enhance T cell mediated cancer immunotherapy. Nat. Commun. 12(1)7264(2021).

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

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