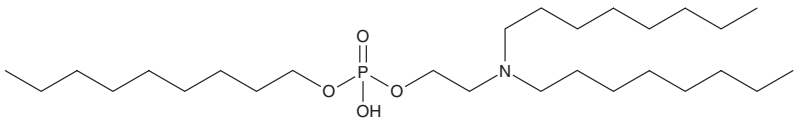
PRODUCT INFORMATION

9A1P9

Item No. 37276

CAS Registry No.:	2760467-57-8
Formal Name:	2-(dioctylamino)ethyl nonyl hydrogen phosphate
MF:	$C_{27}H_{58}NO_4P$
FW:	491.7
Purity:	≥95%
Supplied as:	A 10 mg/ml solution in ethanol
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

9A1P9 is supplied as a solution in ethanol. To change the solvent, simply evaporate the 9A1P9 under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of 9A1P9 in DMF is approximately 2 mg/ml.

Description

9A1P9 is a multi-tail ionizable cationic phospholipid.[1] It induces membrane destabilization and has been used for organ-selective mRNA delivery to the spleen and liver and CRISPR-Cas9 gene editing in mice.

Reference

1. Liu, S., Cheng, Q., Wei, T., *et al.* Membrane-destabilizing ionizable phospholipids for organ-selective mRNA delivery and CRISPR-Cas gene editing. *Nat. Mater.* **20(5)**, 701-710 (2021).

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