

Product Data Sheet

Product Name: 306-O12B-3

Cat. No.: GC52391

Chemical Properties

Cas. No. 2982842-90-8

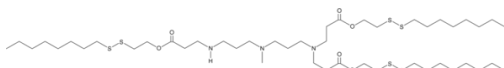
SMILES O=C(OCCSSCCCCCCCC)CCN(CCCN(C)CCCNCCC(OCCSSCCCCCCCC)=O)CCC(OCCSSCCCCCCCC)=O

Formula C₄₆H₉₁N₃O₆S₆ M.Wt 974.6

Solubility Ethanol: 10 mg/ml Storage -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure 

Background

306-O12B-3 is an ionizable cationic lipidoid.¹ It has been used in the generation of lipid nanoparticles (LNPs) for the delivery of antisense oligonucleotides (ASOs). LNPs containing 306-O12B-3 localize to the liver after intravenous administration in mice. LNPs containing 306-O12B-3 in combination with other lipids encapsulating ASOs targeting the gene encoding proprotein convertase subtilisin kexin type 9 (*PCSK9*) decrease hepatic *PCSK9* expression in mice. Intravenous administration of LNPs containing 306-O12B-3 and the cationic lipidoid NT1-O14B encapsulating ASOs against tau decreases tau expression and levels in mouse brain.²

1. Yang, L., Ma, F., Liu, F., et al. Efficient delivery of antisense oligonucleotides using bio-reducible lipid nanoparticles in vitro and in vivo. *Mol. Ther. Nucleic Acids* 19:1357-1367 (2020) 2. Ma, F., Yang, L., Sun, Z., et al. Neurotransmitter-derived lipidoids (NT-lipidoids) for enhanced brain delivery through intravenous injection. *Sci. Adv.* 6(30):eabb4429 (2020)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA