

DOG-IM4

Catalog number: N-1017

Molecular Formula: C₅₃H₉₉N₃O₈

MW: 906.39

CAS#: 2758097-38-8

Alternative Names: N-((Z)-17-(((Z)-heptadec-8-en-1-yl)oxy)-3,6,9,12,15,19-hexaoxaheptatriacont-28-en-1-yl)-1H-imidazole-4-carboxamide

Solubility: ~5 mg/mL in methanol

Storage and Handling: Store dry at -20 °C. Stock solution should be stored frozen (-20 °C or below).

Background: DOG-IM4 is an ionizable lipid which is used to deliver mRNA by forming lipid nanoparticles (LNPs). DOG-IM4 can improve the thermostability of mRNA/LNP in combination with helper lipids.

References: Manon Ripoll, et al "An imidazole modified lipid confers enhanced mRNA-LNP stability and strong immuzation properties in mice and non-human primates" Biomaterials 2022, 286, 121570.

Hazardous Properties and Cautions: The toxicological and pharmacological properties of this compound are not fully known. For further information see the MSDS on request. This product is manufactured and shipped only in small quantities, intended for research and development in a laboratory utilizing prudent procedures for handling chemicals of unknown toxicity, under the supervision of persons technically qualified to evaluate potential risks and authorized to enforce appropriate health and safety measures. As with all research chemicals, precautions should be taken to avoid unnecessary exposures or risks.

Warranty and Disclaimer: Echelon warrants the product conforms to the specifications stated herein. In the event of nonconformity, Echelon will replace products or refund purchase price, at its sole option, and Echelon shall not be responsible for any other loss or damage, whether known or foreseeable to Echelon. No other warranties apply, express or implied, including but not limited to warranty of fitness for any purpose or implied warranty of merchantability. Purchaser is solely responsible for all consequences of its use of the product and Echelon assumes no responsibility therefore, including success of purchaser's research and development, or health or safety of any uses of the product.

Technical Data Sheet, Rev 1, 7/31/2024 - For research use only. Not intended for diagnostic or therapeutic use.



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