

BHD-C2C2-PipZ

Catalog number: N-1031

Molecular Formula: $C_{47}H_{93}N_3O_4$

MW: 764.26

CAS#: n/a

Alternate Names: heptadecan-9-yl 3-[(3-heptadecan-9-yloxy-3-oxopropyl)-[2-(4-methylpiperazin-1-yl)ethyl]amino]propanoate

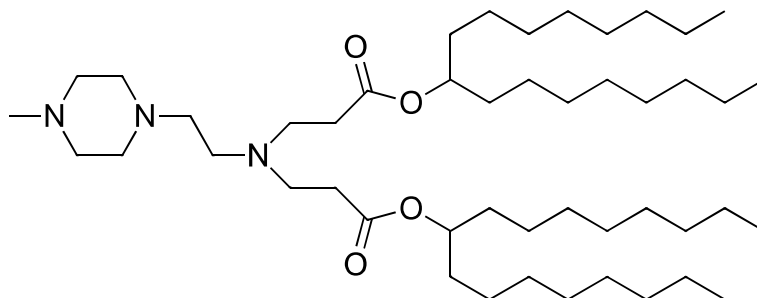
Solubility: Methanol, ethanol (5 mg/mL)

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

Background: BHD-C2C2-PipZ is an ionizable lipid which can form PEG-free lipid nanoparticles (LNPs) for RNA delivery. PEG-related immunogenicity is a well-known problem, but substituting tripolyphosphate resulted in stable LNPs that demonstrated increased expression compared with traditional LNPs. Hepatic tolerability was comparable to traditional LNPs and cytokine profiles indicated no inflammation suggesting repeat dosing was possible without PEG-related side effects.

References:

G. Hamraz et al, "PEG-free, triphosphate-stabilized LNPs enable potent RNA delivery" BioRxiv. <https://doi.org/10.64898/2025.12.19.695515>



Hazardous Properties and Cautions: The toxicological and pharmacological properties of this compound are not fully known. For further information see the SDS 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.

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