

Product Data Sheet

Product Name: DNCA
Cat. No.: GC90912

Chemical Properties

Cas. No. 2226561-66-4

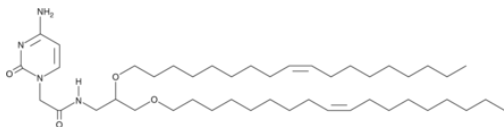
Formula $C_{45}H_{82}N_4O_4$ M.Wt 743.2

Solubility Ethanol: 5 mg/ml Storage Store at -20°C

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

DNCA is a neutral lipid that has been used in the generation of lipid nanoparticles (LNPs).¹ Intravenous administration of LNPs containing DNCA and encapsulating siRNA targeting *BRAF* containing a valine-to-glutamate substitution at position 600 (*BRAF*^{V600E}) reduce tumor *BRAF*^{V600E} expression and tumor weight and volume without reducing animal weight in an A375 melanoma mouse xenograft model. Intratumoral administration of LNPs containing DNCA and encapsulating cyclic di-GMP decreases tumor volume, increase survival, and increase the ratio of tumor-associated cytotoxic/exhausted CD4⁺ and CD8⁺ T cells in an EO771 murine model of primary breast cancer with tumor rechallenge.²

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

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