

Product Data Sheet

Product Name: LD003
Cat. No.: GC91569

Chemical Properties

Cas. No. 2102449-40-9

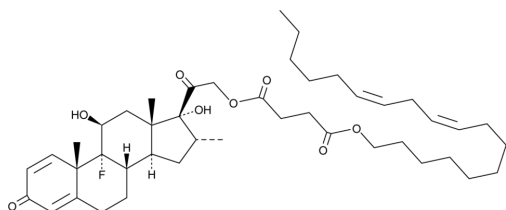
Formula $C_{44}H_{65}FO_8$ M.Wt 741

Solubility Ethanol: Soluble: ≥ 10 mg/ml Storage -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

LD003 is a lipid prodrug form of the synthetic glucocorticoid dexamethasone that has been used in the formation of lipid nanoparticles (LNPs) for siRNA and mRNA delivery *in vivo*.^[1] LNPs containing LD003 and encapsulating cytosine-guanine-containing oligodeoxynucleotide (CpG) reduce the blood levels of IL-10, chemokine (C-X-C motif) ligand 1 (CXCL1), TNF- α , IL-1 β , and IL-6 in mice. LNPs containing LD003 and encapsulating siRNA targeting mouse coagulation Factor VII (FVII) decrease injection site immune infiltration and hepatic levels of FVII in mice.

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

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