

Product Data Sheet

Product Name: Lipid U-101

Cat. No.: GC91814

Chemical Properties

Cas. No. N/A

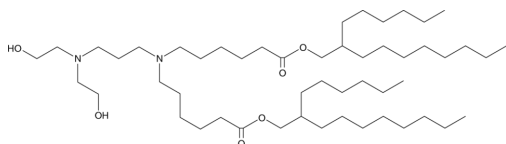
Formula $C_{51}H_{102}N_2O_6$ M.Wt 839.4

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

Lipid U-101 is an ionizable cationic lipid that has been used in the formation of lipid nanoparticles (LNPs) for the delivery of mRNA *in vitro* and *in vivo*.^[1] LNPs containing lipid U-101 and encapsulating mRNA encoding a fusion protein composed of IL-2, a linker, and CD25 inhibit tumor growth in an MC-38 mouse xenograft model.

References:

[1]. Jiang, Y., Zhang, Y., Liu, C., et al. Tumor-activated IL-2 mRNA delivered by lipid nanoparticles for cancer immunotherapy. *J. Control. Release* 368:663-675 (2024).

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