

DC67475 | FTT5 LLNs

Instructions for Use

FTT5 LLNs is a modified TT3-derived lipidoid optimized for nucleic acid delivery via lipid-like nanoparticles (LLNs). These formulations demonstrate hepatic tropism in mice and enhance reporter gene expression in Hep3B cells. Therapeutically, FTT5 LLNs successfully deliver Factor VIII mRNA to restore clotting activity in hemophilic mice and enable in vivo genome editing applications.

Product information

CAS No.	Not available
Chemical Name	FTT5 LLNs
Formula	C120H222N6O15
M.Wt	1,989.1
Purity	>98%
Storage	Original product: up to 1 year under the storage conditions stated on the vial, kept tightly sealed. Stock solutions: aliquots at -20°C, generally up to one month.
Shipping condition	Ships from Shanghai. Pure lipid is stable during ice-pack transport.

Formulation & study context

Literature values apply to the cited study only. Administration routes describe research, not clinical instructions.

A complete product-specific formulation has not been verified. No standard ratio is substituted.

N/P ratio	Not reported in the verified record
Cargo	Not available in the verified record
Administration route	Not available in the verified record
Animal model	Not available in the verified record
Formulation process	Not available in the verified record

N/P is a nitrogen-to-phosphate molar ratio. Lipid:cargo mass ratio is a different quantity and must not be used as N/P.

Stock-solution preparation table

Calculated using product-page MW: 1989.1 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	5.027 mL	1.005 mL	0.503 mL
25 mg	12.568 mL	2.514 mL	1.257 mL

Mass	1 mM	5 mM	10 mM
50 mg	25.137 mL	5.027 mL	2.514 mL
100 mg	50.274 mL	10.055 mL	5.027 mL
250 mg	125.685 mL	25.137 mL	12.568 mL

Volume (mL) = mass (mg) × 1000 / [MW (g/mol) × concentration (mM)]. Mathematical conversions only; not measured solubility. Confirm solvent compatibility and the exact material before preparation.

Handling & storage

Provided that storage conditions are as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 1 year.

Wherever possible, prepare and use solutions on the same day. If stock solutions must be prepared in advance, store them as aliquots in tightly sealed vials at -20°C. Generally, these will be usable for up to one month.

Before use, and prior to opening the vial, allow the product to equilibrate to room temperature for at least 1 hour.

References

Not available