

DC67555 | Lipid 2231

Instructions for Use

Sail Lipid 2231 is a novel ionizable lipid targeting to spleen developed by Sai Biomedicine. As described on US20250205167A1 Lipid 2231 features a pyrrolidine core (5-membered ring) with biodegradable ester linkages and asymmetric C17/C11 hydrophobic chains. In vivo data shows moderate spleen targeting (Spleen RLU: $3.8E+06$) with a spleen-to-liver ratio of 12.767.

Product information

CAS No.	Not available
Chemical Name	Lipid 2231
Formula	C52H98O8N2
M.Wt	879.36
Purity	ELSD-HPLC>95%
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: 879.36 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	11.372 mL	2.274 mL	1.137 mL
25 mg	28.430 mL	5.686 mL	2.843 mL

Mass	1 mM	5 mM	10 mM
50 mg	56.860 mL	11.372 mL	5.686 mL
100 mg	113.719 mL	22.744 mL	11.372 mL
250 mg	284.298 mL	56.860 mL	28.430 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