

DC67615 | STING Agonist Lipid SAL-12

Instructions for Use

SAL12 is a novel ionizable lipid derivative that integrates a non-nucleotide STING agonist (agonist 6) with an amino lipid tail through an ester bond, forming the core component of specialized lipid nanoparticles (SAL12-LNPs). These nanoparticles are designed for dual functionality: they efficiently encapsulate and deliver mRNA into dendritic cells while concurrently activating the STING pathway to stimulate innate immunity.

Product information

CAS No.	Not available
Chemical Name	STING Agonist Lipid SAL-12
Formula	C ₆₂ H ₁₁₂ O ₁₁ N ₂ S
M.Wt	1,093.64
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: 1093.64 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	9.144 mL	1.829 mL	0.914 mL

Mass	1 mM	5 mM	10 mM
25 mg	22.859 mL	4.572 mL	2.286 mL
50 mg	45.719 mL	9.144 mL	4.572 mL
100 mg	91.438 mL	18.288 mL	9.144 mL
250 mg	228.594 mL	45.719 mL	22.859 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