

DC67981 | Diamino lipid DAL4

Instructions for Use

Diamino lipid DAL4 is diamino lipid for the preparation of lipid nanoparticles (LNPs) encapsulated with mRNAs encoding cytokines including IL-12, IL-27 and GM-CSF. Diamino lipid DAL4 delivers mRNA to tumor cells to exert anti-tumor activity.

Product information

CAS No.	Not available
Chemical Name	Diamino lipid DAL4
Formula	C52H99BFN3O3
M.Wt	844.17
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: 844.17 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	11.846 mL	2.369 mL	1.185 mL
25 mg	29.615 mL	5.923 mL	2.961 mL
50 mg	59.230 mL	11.846 mL	5.923 mL

Mass	1 mM	5 mM	10 mM
100 mg	118.460 mL	23.692 mL	11.846 mL
250 mg	296.149 mL	59.230 mL	29.615 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