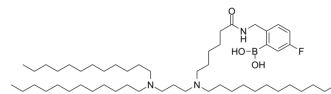


Diamino lipid DAL4

Cat. No.:	HY-151508
CAS No.:	2939000-43-6
Molecular Formula:	C ₅₂ H ₉₉ BFN ₃ O ₃
Molecular Weight:	844.17
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	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 ^[1] .
In Vitro	Diamino lipid DAL4 (DAL4-LNP) effectively delivers different mRNAs in vitro to tumor cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Diamino lipid DAL4 (DAL4-LNP) loaded with IL-12 mRNA (intratumoral injection) is most potent in inhibiting B16F10 melanoma tumor growth compared to IL-27 or GM-CSF mRNAs in monotherapy ^[1] . Diamino lipid DAL4 loaded with IL-12 mRNA and IL-27 mRNA (intratumoral injection) shows synergistic effect in suppressing tumor growth without causing systematic toxicity ^[1] . And also Diamino lipid DAL4 induces robust infiltration of immune effector cells, including IFN-γ and TNF-α producing natural killer cells (NK) and CD8 ⁺ T cells into tumors ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Liu JQ, et al. Intratumoral delivery of IL-12 and IL-27 mRNA using lipid nanoparticles for cancer immunotherapy. *J Control Release*. 2022 May;345:306-313.

Caution: Product has not been fully validated for medical applications. For research use only.

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