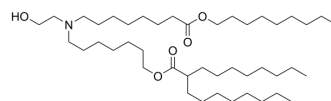


## Lipid M

Cat. No.:	HY-132289
CAS No.:	2089251-57-8
Molecular Formula:	C <sub>44</sub> H <sub>87</sub> NO <sub>5</sub>
Molecular Weight:	710.17
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Lipid M (pKa: 6.75) can be used to deliver mRNA vaccine and yield a robust immune response with improved tolerability <sup>[1]</sup> .
In Vivo	<p>Lipid M (50 µL containing 2 µg of luciferase mRNA formulated in LNPs, i.m.) is followed by rapid clearance in muscle, spleen and liver in CD-1 mice<sup>[1]</sup>.</p> <p>Lipid M (300 µL containing 500 µg IgG mRNA formulated in LNPs, i.m.) yields serum antibody expression comparable to that of MC3-based LNPs in cynomolgus monkeys<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Hassett KJ, et al. Optimization of Lipid Nanoparticles for Intramuscular Administration of mRNA Vaccines. Mol Ther Nucleic Acids. 2019 Apr 15;15:1-11.

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

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