



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## DOG-IM4

Item No. 37441

**CAS Registry No.:** 2758097-38-8  
**Formal Name:** N-[(25Z)-14-[(9Z)-9-octadecen-1-yloxy]-3,6,9,12,16-pentaoxatetracont-25-en-1-yl]-1H-imidazole-5-carboxamide

**MF:** C<sub>51</sub>H<sub>95</sub>N<sub>3</sub>O<sub>7</sub>

**FW:** 862.3

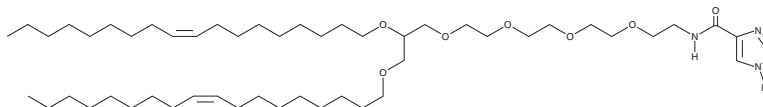
**Purity:** ≥95%

**UV/Vis.:** λ<sub>max</sub>: 232 nm

**Supplied as:** A solution in ethanol

**Storage:** -20°C

**Stability:** ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Description

DOG-IM4 is an ionizable cationic lipid (apparent  $pK_a = 5.6$ ) that has been used in the generation of lipid nanoparticles (LNPs) for the delivery of mRNA.<sup>1</sup> Immunization with LNPs containing DOG-IM4 and encapsulating mRNA encoding influenza A hemagglutinin (HA) increases HA-inhibiting antibody titers (HI titers) in mice and cynomolgus macaques.

### Reference

1. Ripoll, M., Bernard, M.-C., Vaure, C., *et al.* An imidazole modified lipid confers enhanced mRNA-LNP stability and strong immunization properties in mice and non-human primates. *Biomaterials* **286**, 121570 (2022).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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