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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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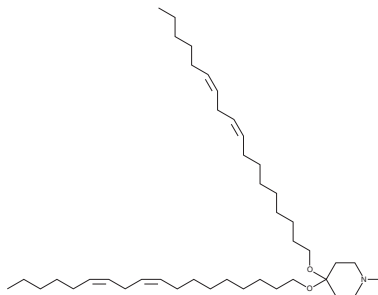
PRODUCT INFORMATION



YSK05

Item No. 35786

CAS Registry No.: 1318793-78-0
Formal Name: 1-methyl-4,4-bis[(9Z,12Z)-9,12-octadecadien-1-yloxy]-piperidine
MF: C₄₂H₇₇NO₂
FW: 628.1
Purity: ≥90%
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

YSK05 is an ionizable cationic amino lipid (apparent $pK_a = \sim 6.5$) that has been used in combination with other lipids in the formation of liposomes and lipid nanoparticles (LNPs).¹⁻³ Administration of cyclic di-GMP (Item No. 17144) in YSK05-containing liposomes increases serum levels of IFN- β , IFN- γ , IL-6, and TNF- α and activates natural killer (NK) cells in mice, as well as decreases lung metastasis in a B16/F10 murine melanoma model of metastasis.² Intravenous administration of factor VII siRNA in YSK05-containing LNPs reduces factor VII activity in isolated mouse plasma.³

References

1. Sato, Y., Hatakeyama, H., Sakurai, Y., *et al.* A pH-sensitive cationic lipid facilitates the delivery of liposomal siRNA and gene silencing activity *in vitro* and *in vivo*. *J. Control. Release* **163**(3), 267-276 (2012).
2. Nakamura, T., Miyabe, H., Hyodo, M., *et al.* Liposomes loaded with a STING pathway ligand, cyclic di-GMP, enhance cancer immunotherapy against metastatic melanoma. *J. Control. Release* **216**, 149-157 (2015).
3. Sato, Y., Note, Y., Maeki, M., *et al.* Elucidation of the physicochemical properties and potency of siRNA-loaded small-sized lipid nanoparticles for siRNA delivery. *J. Control. Release* **229**, 48-57 (2016).

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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