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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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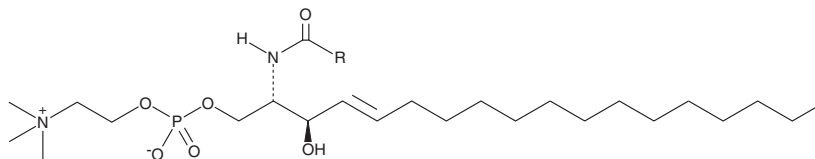
PRODUCT INFORMATION



Sphingomyelins (egg)

Item No. 24345

CAS Registry No.: 383907-87-7
Synonym: SMs (egg)
MF: C₃₉H₇₉N₂O₆P (for palmitoyl)
FW: 703.0
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

Sphingomyelins (SMs) (egg) is supplied as a solid. A stock solution may be made by dissolving the SMs (egg) in the solvent of choice. SMs (egg) is soluble in ethanol (warm), chloroform, and methanol.

Description

SMs are bioactive sphingolipids found in mammalian cell membranes.¹ SMs make up 2-15% of the total organ phospholipid population but are found at higher concentrations in the brain and myelin sheaths surrounding peripheral nerves. They interact with cholesterol to control its distribution within cellular membranes and maintain cholesterol homeostasis in cells. SMs undergo hydrolysis by sphingomyelinase to form ceramides, which are sphingolipid mediators of intracellular signaling.² This product is a mixture of SMs, with variable fatty acid chain lengths, isolated from chicken egg.

References

1. Slotte, J.P. and Ramstedt, B. The functional role of sphingomyelin in cell membranes. *Eur. J. Lipid Sci. Technol.* **109(10)**, 977-981 (2007).
2. Shayman, J.A. Sphingolipids. *Kidney Int.* **58(1)**, 11-26 (2000).

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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