



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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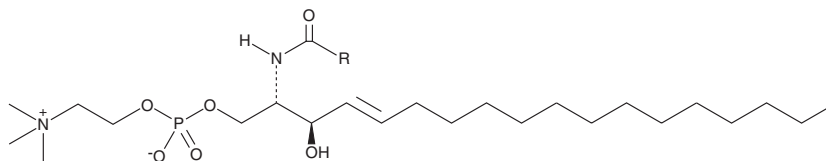
# PRODUCT INFORMATION



## Sphingomyelins (buttermilk)

Item No. 31559

CAS Registry No.: 475662-40-9  
Synonym: SMs (buttermilk)  
MF:  $C_{46}H_{93}N_2O_6P$  (for tricosanoyl)  
FW: 801.2  
Purity:  $\geq 98\%$   
Supplied as: A solid  
Storage:  $-20^\circ\text{C}$   
Stability:  $\geq 2$  years



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

### Laboratory Procedures

Sphingomyelins (buttermilk) is supplied as a solid. A stock solution may be made by dissolving the sphingomyelins (buttermilk) in the solvent of choice, which should be purged with an inert gas. Sphingomyelins (buttermilk) is soluble in ethanol and chloroform.

### Description

Sphingomyelins (SMs) are bioactive sphingolipids found in mammalian cell membranes.<sup>1</sup> 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.<sup>2</sup> This product is a mixture of SMs, with variable fatty acyl chain lengths, isolated from buttermilk.

### 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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