

Active Native Staphylococcus aureus Sphingomyelinase

Cat. No. Sphingomyelinase-38S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Staphylococcus aureus Sphingomyelinase
Species	S.aureus
Source	S. aureus
Description	Bacterial hemolysins are exotoxins that attack blood cell membranes and cause cell rupture. Beta-hemolysin is a phospholipase C with specific activity toward sphingomyelins. Has a high specificity for sphingomyelin, hydrolyzes lysophosphatidylcholine at a much lower rate, but has no activity towards phosphatidylcholine, phosphatidylethanolamine, or phosphatidylserine.
Bio-activity	Specific activity: 100-300 U/mg protein. One unit will hydrolyze 1 µmol of TNPAL-sphingomyelin per minute at pH 7.4 and 37 centigrade.
Applications	May be used exogenously to initiate the sphingomyelin signaling pathway. Has very little activity on phosphatidylcholine.
Storage	At +4 centigrade
Storage Buffer	Supplied in 50% glycerol/0.25 M phosphate buffer.
Shipping	Blue Ice Not Frozen

GENE INFORMATION

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Official Symbol	Sphingomyelinase
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Synonyms	Sphingomyelinase
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UniProt ID	P09978
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