

## sphingomyelin synthase

Cat. No. EXWM-3326

Lot. No. (See product label)

### Introduction

**Description** The reaction can occur in both directions. This enzyme occupies a central position in sphingolipid and glycerophospholipid metabolism. Up- and down-regulation of its activity has been linked to mitogenic and pro-apoptotic signalling in a variety of mammalian cell types. Unlike EC 2.7.8.3, ceramide cholinephosphotransferase, CDP-choline cannot replace phosphatidylcholine as the donor of the phosphocholine moiety of sphingomyelin.

**Synonyms** SM synthase; SMS1; SMS2

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.7.8.27

**CAS No.** 58703-97-2

**Reaction** a ceramide + a phosphatidylcholine = a sphingomyelin + a 1,2-diacyl-sn-glycerol

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

**Storage** Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.