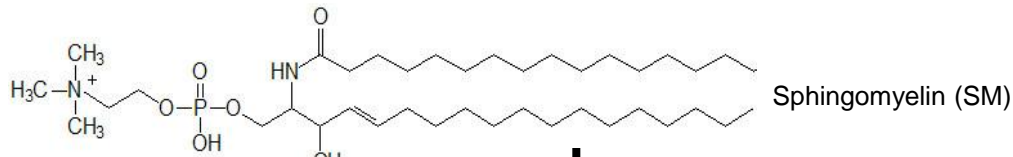


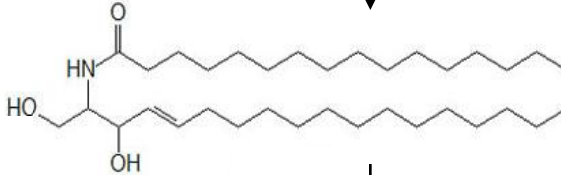
Sphingolipids and enzymes

Targets

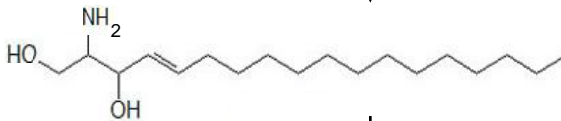
Biological effect



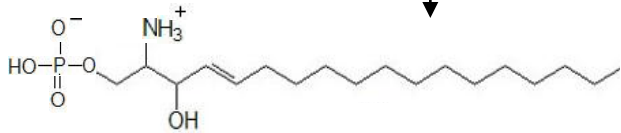
SPHINGOMYELINASES



CERAMIDASES



SPHINGOSINE KINASES



Sphingomyelin (SM)

Ceramide (Cer)

Sphingosine (Sph)

Sphingosine-1-phosphate (S1P)

(Phosphatases
Kinases
Transcription factors)

(Phosphatases
Kinases
Transcription factors
Receptors)

Apoptosis

Proliferation