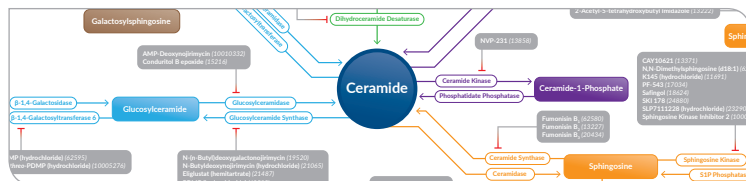


Ceramides and Sphingolipids

Standards and Additional Research Tools



Ceramides and other sphingolipids reside in the outer leaflet of the cell membrane where they modulate cell-cell interactions and can regulate differentiation, proliferation, and programmed cell death. Ceramide is the intermediate in the formation of multiple types of sphingolipids that mediate a wide range of biological activities. To help you study distinct aspects of this important lipid signaling pathway, Cayman carries many different ceramide and sphingolipid standards as well as inhibitors for the various enzymes driving key events in sphingolipid metabolism.



Primary Pathways for Sphingolipid Synthesis wall chart **INSIDE!**

Ceramide and Sphingolipid Standards

Item No.	Product Name	Summary	Purity
10681	C16 Ceramide (d18:1/16:0)	A bioactive sphingolipid	≥98%
10007946	C16 Sphingomyelin (d18:1/16:0)	A C16 sphingomyelin	≥98%
22501	C17 Sphinganine-1-phosphate (d17:0)	A sphingolipid analog of sphinganine-1-phosphate (d18:0) and sphingosine-1-phosphate (d18:1)	≥95%
24354	C17 D-erythro/L-threo Sphingomyelin (d18:1/17:0)	A synthetic derivative of sphingomyelin	≥98%
22788	C18 Ceramide-d ₇ (d18:1-d ₇ /18:0)	An internal standard for the quantification of C18 ceramide	≥99%
22686	C18 Phytoceramide (t18:0/18:0)	A bioactive sphingolipid	≥98%
22789	C24 Ceramide-d ₇ (d18:1-d ₇ /24:0)	An internal standard for the quantification of lignoceric ceramide	≥99%
22790	C24:1 Ceramide-d ₇ (d18:1-d ₇ /24:1 (15Z))	An internal standard for the quantification of nervonic ceramide	≥99%
22442	EOS (18:1/32:1/18:2)	An essential ceramide for prevention of epidermal water loss	≥95%
13511	1-Deoxysphinganine (m18:0)	An atypical sphingolipid	≥95%
24515	1-Deoxysphingosine (m18:1(14Z))	An atypical sphingolipid	≥98%
25493	C6 1-Deoxyceramide (m18:1(14Z)/6:0)	A short-chain atypical ceramide	≥95%
25494	C6 dihydro 1-Deoxyceramide (m18:0/6:0)	A short-chain atypical ceramide	≥98%
10007945	Sphinganine (d18:0)	A sphingolipid pathway intermediate	≥98%
24380	3-keto Sphinganine (d18:0) (hydrochloride)	A sphingolipid pathway intermediate	≥98%
10007907	Sphingosine (d18:1)	A pharmacological tool to probe the activity of protein kinase C	≥98%
62570	Sphingosine-1-phosphate (d18:1)	A signaling sphingolipid	≥98%

View a complete list of ceramide and sphingolipid standards at www.caymanchem.com

NEW: Atypical Sphingolipids

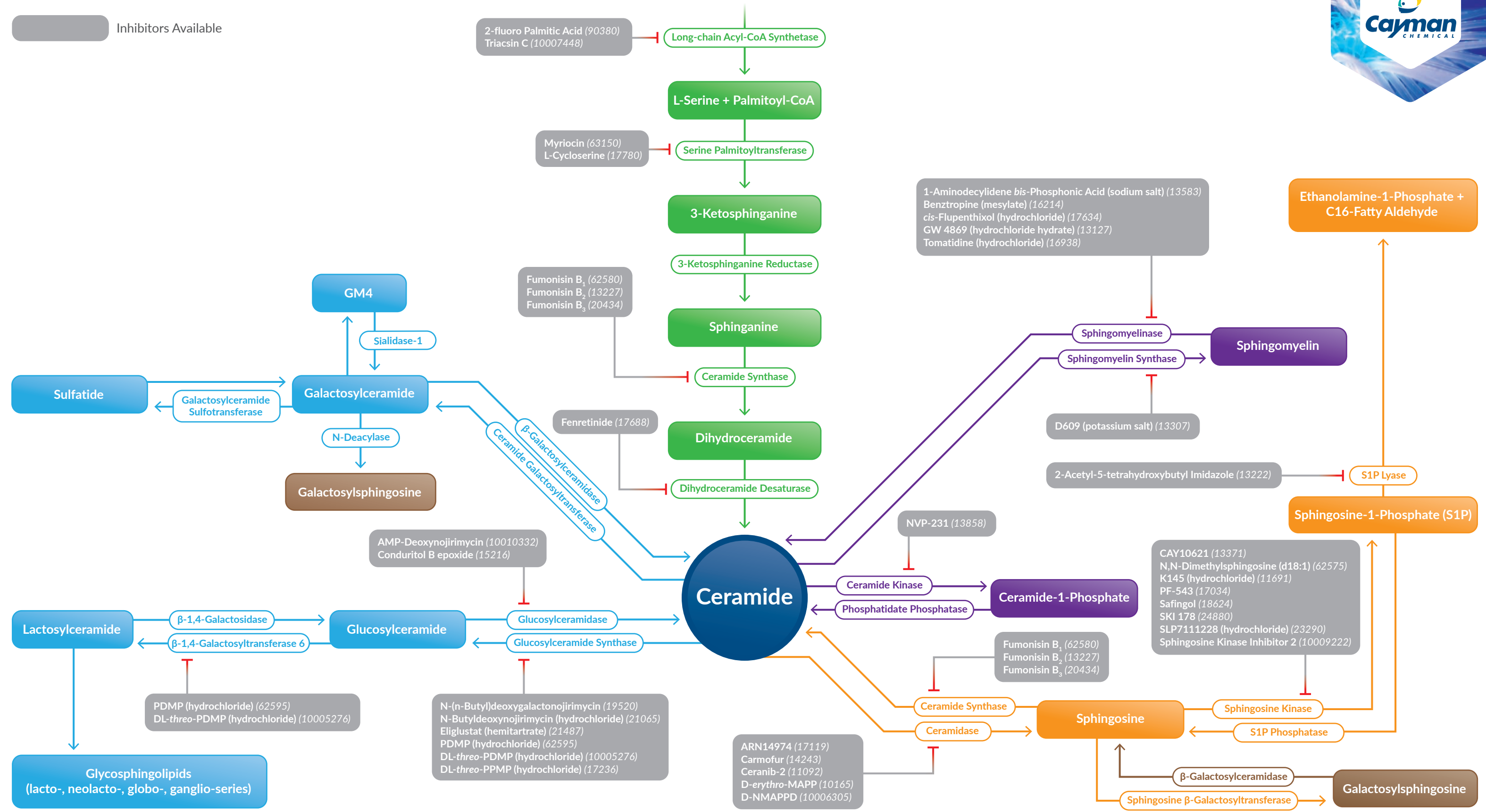
Cayman scientists have synthesized deoxysphingolipids, which lack the typical C1 hydroxyl group of regular sphingolipid bases and are associated with cellular toxicity.

Learn more at www.caymanchem.com/news/deoxysphingolipids.

PRIMARY PATHWAYS FOR SPHINGOLIPID SYNTHESIS



Inhibitors Available



Assay, Antibodies, and Proteins

Item No.	Product Name	Summary
10009928	Sphingomyelin Colorimetric Assay Kit	Measure sphingomyelin in plasma and serum
10005260	Serine Palmitoyltransferase Polyclonal Antibody	Host: Rabbit · Applications: IHC, WB
10006822	Sphingosine Kinase 1 Polyclonal Antibody	Host: Rabbit · Applications: ICC, WB
10012201	Sphingosine Kinase 1 Polyclonal FITC Antibody	Host: Rabbit · Applications: FC, WB
10348	Sphingosine Kinase 1 (human recombinant)	Active, N-terminal His-tagged protein expressed in Sf9 cells
10009237	Sphingosine Kinase 2 (human recombinant)	Full length, N-terminal His-tagged protein expressed in Sf9 cells

Fluorescent Probes

Item No.	Product Name	Summary
9000753	C10 AV Ceramide (d18:1/10:0)	Fluorescently tagged C10 ceramide used to probe lipid transport
10007958	C12 NBD Ceramide (d18:1/12:0)	Fluorescent ceramide analog used to measure alkaline and neutral ceramidase activity
10008097	C12 NBD dihydro Ceramide (d18:0/12:0)	Fluorescent ceramide analog that contains a saturated bond in the C-4/C-5 position
20948	4-Methylumbelliferyl-β-D-Glucopyranoside	Fluorogenic substrate of β-glucosidase and β-glucocerebrosidase (glucosylceramidase)
16620	4-Methylumbelliferyl-N-acetyl-α-D-Neuraminic Acid (sodium salt)	Fluorogenic substrate used to assay neuraminidase activity

Sphingosine-1-Phosphate Receptor Agonists/Antagonists

Sphingosine can be phosphorylated to form sphingosine-1-phosphate (S1P), the ligand for a family of S1P receptors.

Item No.	Product Name	Summary
10005033	CAY10444	Selective S1P ₃ receptor antagonist
16925	CYM 5442	Selective S1P ₁ receptor agonist (EC ₅₀ = 1.35 nM)
14667	CYM 50308	Selective S1P ₄ receptor agonist (EC ₅₀ = 56 nM)
11975	Fingolimod	Orally bioavailable S1P receptor modulator
10006292	Fingolimod (hydrochloride)	Immune modulator that targets S1P receptors Also available: azido-FTY720 (Item No. 10008612) and FTY720 Phosphate (Item No. 10008639)
10009458	JTE-013	Selective S1P ₂ receptor antagonist (IC ₅₀ s = 17 and 22 nM for human and rat, respectively)
10006440	SEW2871	Potent, selective S1P ₁ receptor agonist
10010992	W123	S1P ₁ receptor antagonist (K _i = 0.69 μM)
10009109	W146 (trifluoroacetate salt)	Selective S1P ₁ receptor antagonist (K _i = 77 nM)

S1P Antibodies

Item No.	Product Name	Summary
10005228	S1P ₁ Polyclonal Antibody	Host: Rabbit · Applications: IF, IHC, WB
20208	S1P ₁ Polyclonal Antibody (protein A-purified)	Host: Rabbit · Application: WB
10006373	S1P ₃ Polyclonal Antibody	Host: Rabbit · Applications: ICC, WB
13489	S1P ₄ Polyclonal Antibody	Host: Rabbit · Applications: ICC, IF, WB
13490	S1P ₅ Polyclonal Antibody	Host: Rabbit · Applications: IHC, WB



To view a complete list of our ceramides and sphingolipids, visit us online at www.caymanchem.com

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