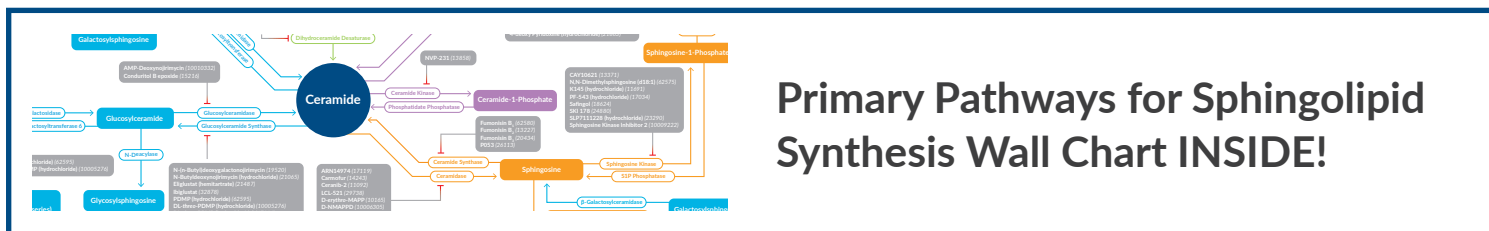


Sphingolipids

Standards and Additional Research Tools



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 sphingolipid standards as well as inhibitors for the various enzymes driving key events in sphingolipid metabolism.



Primary Pathways for Sphingolipid Synthesis Wall Chart INSIDE!

Isotope-labeled Sphingolipid Standards

Item No.	Product Name
22787	C16 Ceramide-d ₇ (d18:1-d ₇ /16:0)
22789	C24 Ceramide-d ₇ (d18:1-d ₇ /24:0)
22788	C18 Ceramide-d ₇ (d18:1-d ₇ /18:0)
24467	C18 Galactosylceramide-d ₃₅ (d18:1/18:0-d ₃₅)
31196	C16 Ganglioside G _{M2} -d ₉ (d18:1/16:0-d ₉) (ammonium salt)
24625	C16 Lactosylceramide-d ₃ (d18:1/16:0-d ₃)
10008121	Sphingosine-1-phosphate-d ₇ (d18:1)

See all isotope-labeled sphingolipid standards at www.caymanchem.com

Ganglioside Mixtures

Item No.	Product Name
15585	Ganglioside G _{D1a} Mixture (sodium salt)
35774	Ganglioside G _{D2} Mixture (bovine buttermilk) (ammonium salt)
17481	Ganglioside G _{D3} Mixture (sodium salt)
19579	Ganglioside G _{M1} Mixture (porcine brain) (sodium salt)
15587	Ganglioside G _{M3} Mixture (sodium salt)
15589	Ganglioside G _{Q1b} Mixture (sodium salt)
15588	Ganglioside G _{T1b} Mixture (sodium salt)

See more than 35 ganglioside mixtures at www.caymanchem.com

Unlabeled Sphingolipid Standards

Item No.	Product Name
62525	C6 Ceramide (d18:1/6:0)
10681	C16 Ceramide (d18:1/16:0)
13511	1-Deoxysphinganine (m18:0)
25316	3'-sulfo Galactosylsphingosine (ammonium salt)
24868	Lactosylsphingosine (d18:1)
10007945	Sphinganine (d18:0)
62570	Sphingosine-1-phosphate (d18:1)

See all sphingolipids at www.caymanchem.com

Sphingolipidoses Biomarkers

Item No.	Product Name
24624	C18 3'-sulfo Galactosylceramide-d ₃ (d18:1/18:0-d ₃)
24849	C18 Ganglioside G _{M2} -d ₃ (d18:1/18:0-d ₃) (ammonium salt)
24626	C18 Globotriaosylceramide-d ₃ (d18:1/18:0-d ₃)
24873	Lyso-Globotriaosylceramide (d18:1)
24621	C16 Glucosylceramide-d ₃ (d18:1/16:0-d ₃)
10007946	C16 Sphingomyelin (d18:1/16:0)
10007907	Sphingosine (d18:1)

See all sphingolipidoses biomarkers at www.caymanchem.com

WE HELP SIMPLIFY SOLVENT SELECTION

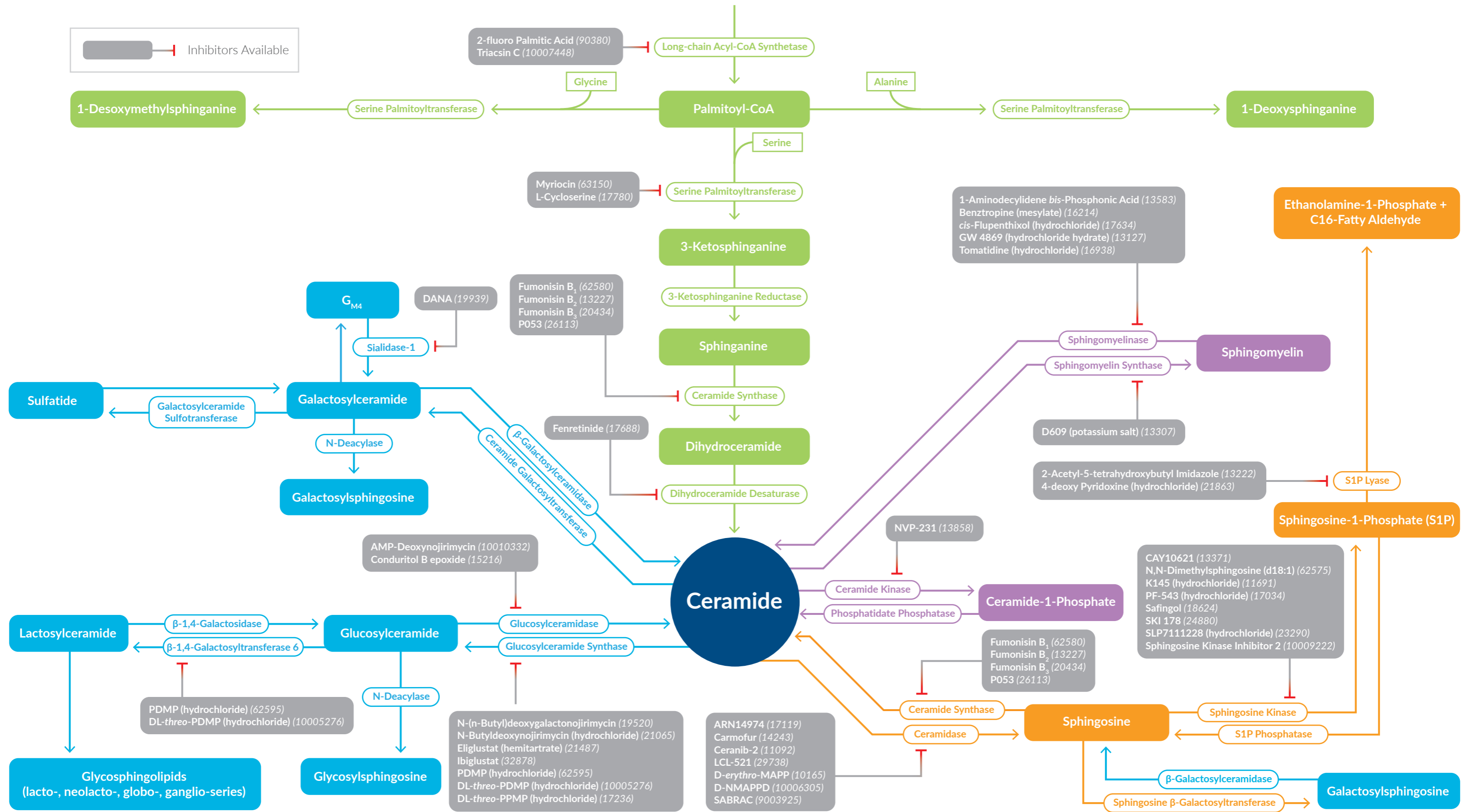
Solubility data is provided on most of our biochemical product pages to help guide you in choosing a solvent.



Learn more about sphingolipid solubilization

www.caymanchem.com/SL-advice

PRIMARY PATHWAYS FOR SPHINGOLIPID SYNTHESIS



View a complete list of small molecule inhibitors of sphingolipid turnover at www.caymanchem.com

Assays, Antibodies, and Proteins

Item No.	Product Name	Summary
10009928	Sphingomyelin Colorimetric Assay Kit	Measure sphingomyelin in plasma and serum
701740	Sphingosine Kinase 1 Inhibitor Screening Assay Kit	Screen human SPHK1 inhibitors
701870	Sphingosine Kinase 2 Inhibitor Screening Assay Kit	Screen human SPHK2 inhibitors
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
30191	Sphingosine Kinase 2 (human, recombinant)	Full length, N-terminal His-tagged protein expressed in insect cells

Fluorescent Probes

Item No.	Product Name	Summary
62527	C6 NBD Ceramide (d18:1/6:0)	Fluorescent ceramide analog used as a fluorescent substrate for the activity of UDP-glucose:ceramide glucosyltransferase
23209	C6 NBD Glucosylceramide (d18:1/6:0)	Fluorescent glucosylceramide derivative used to study metabolism and internalization
24328	C6 NBD Sphingomyelin (d18:1/6:0)	Fluorescent sphingomyelin derivative used to study metabolism and transport
25348	NBD Sphingosine	Fluorescent sphingosine derivative used to study cellular localization and metabolism
10007958	C12 NBD Ceramide (d18:1/12:0)	Fluorescent ceramide analog used to measure alkaline and neutral ceramidase activity

View a complete list of fluorescent probes at www.caymanchem.com

Sphingosine-1-Phosphate Receptor Agonists/Antagonists

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

Item No.	Product Name	Summary
16925	CYM 5442	Selective S1P ₁ receptor agonist (EC ₅₀ = 1.35 nM)
17638	CYM 5520	Selective, noncompetitive allosteric S1P ₂ receptor agonist (EC ₅₀ = 0.48 μM)
10006292	Fingolimod (hydrochloride)	Immune modulator that targets S1P receptors Also available: Fingolimod (Item No. 11975)
10008639	FTY720 Phosphate	Potent agonist at S1P receptors Also available: FTY720 (S)-Phosphate (Item No. 10006408) and azido-FTY720 (Item No. 10008612)
19922	Ozanimod	S1P ₁ and S1P ₅ receptor agonist
10009458	JTE-013	Dual antagonist of S1P ₂ and S1P ₄ receptors (IC ₅₀ s = 17 and 237 nM, respectively)
10006440	SEW2871	Potent, selective S1P ₁ receptor agonist
13240	VPC 23019	Competitive antagonist of S1P ₁ and S1P ₃ receptors (pK _s = 7.86 and 5.93, respectively)
10009109	W146 (trifluoroacetate salt)	Selective S1P ₁ receptor antagonist (K _i = 77 nM)

S1P Receptor 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