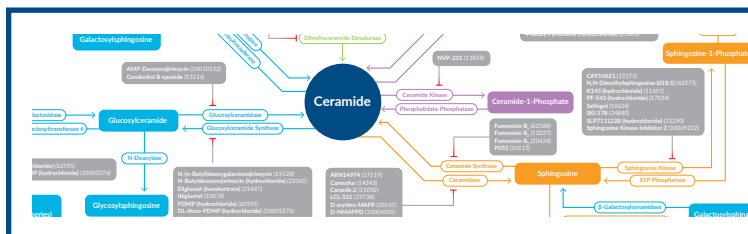


Sphingolipids

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**

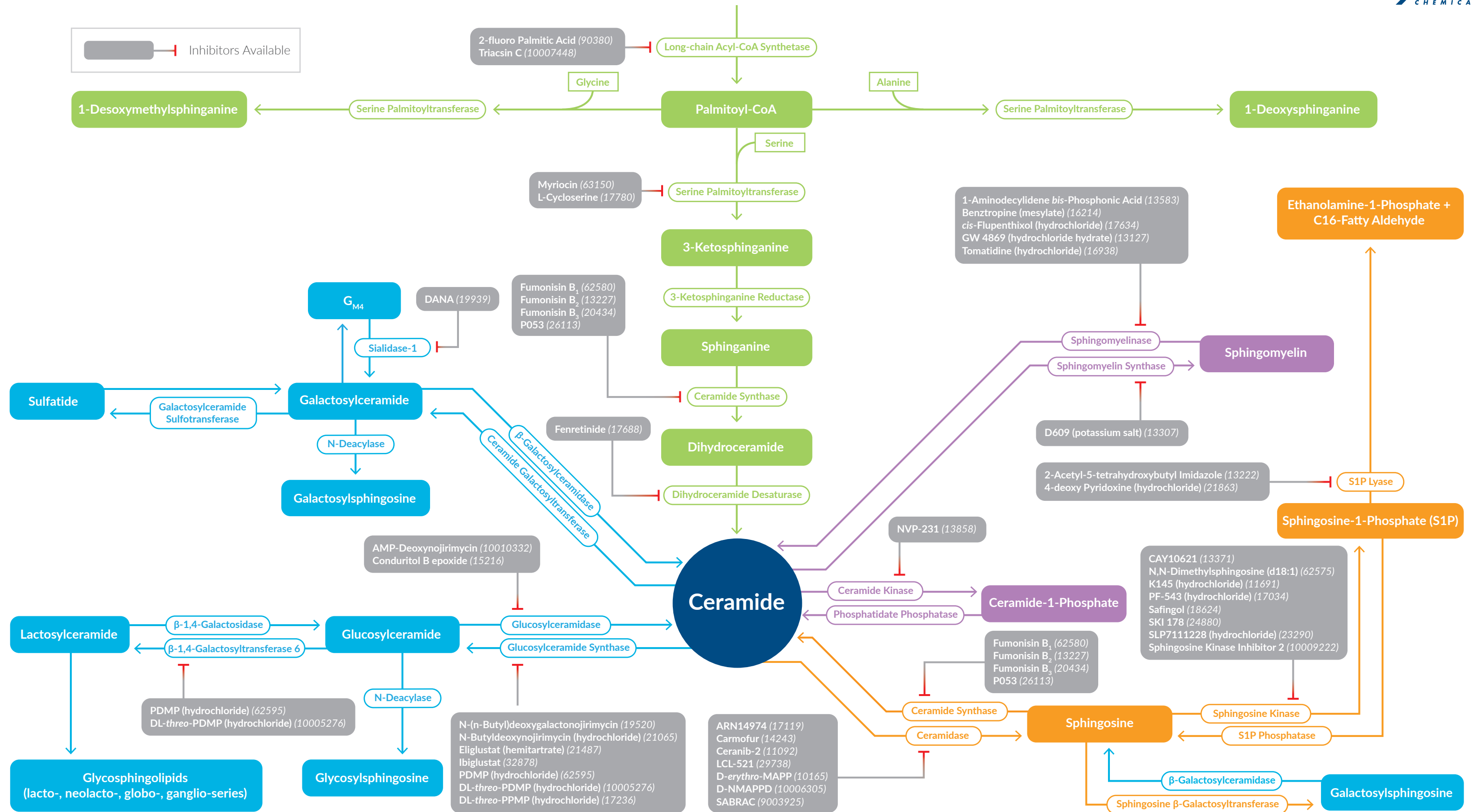
Solubility data is provided on most of our biochemical product pages to help guide you in choosing a solvent.



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 |