

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, IF, 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	AV-Ceramide	Fluorescently tagged C-10 ceramide used to probe lipid transport
10007958	C-12 NBD Ceramide	Fluorescent ceramide analog used to measure alkaline and neutral ceramidase activity
10008097	C-12 NBD-dihydro-Ceramide	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	FTY720	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

Distributed by:



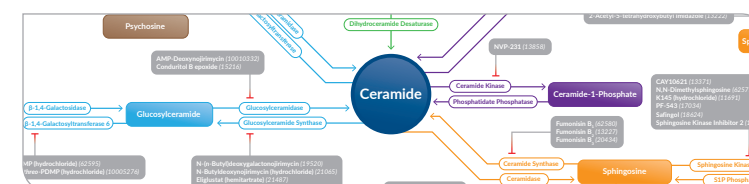
In Italy: Vinci-Biochem Srl
Contatto diretto: tel. 0571 568 147
vb@vincibiochem.it
www.vincibiochem.it

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: sphingosine, sphingomyelin, ceramide-1-phosphate, glucosylceramide, and galactosylceramide, each of which 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 (see table below) as well as inhibitors for the various enzymes driving key events in sphingolipid metabolism (see gray boxes in the diagram on the next page).



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

Standards

- More than 65 ceramide and sphingolipid standards available
- Bulk quantities, custom standards, and custom mixtures also available
- Labeled standards available

Item No.	Product Name	Summary	Purity
62510	C-2 Ceramide	A cell-permeable analog of naturally occurring ceramides	≥98%
62540	C-8 Ceramide	A ceramide analog metabolized within cells to generate natural ceramides	≥98%
62547	C-8 Ceramide-1-phosphate	A short-chain analog of naturally occurring ceramide-1-phosphate	≥90%
10681	C-16 Ceramide	A bioactive sphingolipid	≥98%
19556	C-18 Ceramide	A bioactive sphingolipid	≥95%
17481	Ganglioside G _{D3} (sodium salt)	An acidic glycosphingolipid	≥98%
15587	Ganglioside G _{M3} (sodium salt)	A sialic acid-containing glycosphingolipid	≥98%
17566	(E)-2-Hexadecenal	A long-chain fatty aldehyde	≥95%
10007947	Lyso-Sphingomyelin	A sphingomyelin lacking an acylated side group	≥98%
62530	Nervonic Ceramide	An abundant, naturally occurring ceramide	≥98%
22823	N-Acetyl Phytosphingosine	A bioactive sphingolipid	≥98%
22686	N-Stearoyl Phytosphingosine	A bioactive sphingolipid	≥98%
20338	Psychosine	A galactoside of sphingosine whose cytotoxic accumulation is associated with Krabbe disease	≥98%
10007945	D-erythro-Sphinganine	A sphingolipid pathway intermediate	≥98%
10007946	Palmitoyl Sphingomyelin	A C-16 sphingomyelin	≥98%
62570	Sphingosine-1-Phosphate	A signaling sphingolipid	≥98%
22687	N-(2'-(R,S)-hydroxystearoyl)-D-erythro-Sphingosine	A bioactive sphingolipid	≥98%
10007902	D-erythro-Sphingosine C-17	A 17 carbon sphingosine	≥98%
10007907	D-erythro-Sphingosine C-18	A pharmacological tool to probe the activity of protein kinase C	≥98%

PRIMARY PATHWAYS FOR SPHINGOLIPID SYNTHESIS



Inhibitors Available

