



Sphingolipids Targeted Panel

Sphingolipids

Sphingolipids are a class of lipids that have been linked to inflammatory disease states, including neurodegeneration and cardiovascular diseases. Sphingolipids are also involved in the maintenance of the skin barrier and therefore are routinely used in skin care products.

The Metabolon Sphingolipid Targeted Panel is a hypothesis-generating targeted panel that measures changes in 61 lipid species across five lipid classes with strong links to inflammation. This panel extends insights from genomics and proteomics by confirming the functional impact of upregulated and downregulated genes and proteins and filling gaps in metabolic pathways and biological systems that cannot be observed with other approaches. These findings can be used to study and treat inflammatory conditions by elucidating new biomarkers for drug response, disease progression, clinical outcomes, and the subtyping of disease. The Sphingolipids Targeted Panel complements the Metabolon Global Discovery Panel and other inflammation-related targeted panels.

Applications

- ▶ Inflammation
- ▶ Cardiovascular disease
- ▶ Neuroscience
- ▶ Personal Care & Cosmetics



Metabolites

Ceramide (CER)	Dihydroceramide (DCER)	Hexosylceramide (HCER)	Lactosylceramide (LCER)	Sphingomyelin (SM)
CER(14:0)	DCER(14:0)	HCER(14:0)	LCER(14:0)	SM(14:0)
CER(16:0)	DCER(16:0)	HCER(16:0)	LCER(16:0)	SM(16:0)
CER(18:0)	DCER(18:0)	HCER(18:0)	LCER(18:0)	SM(18:0)
CER(18:1)	DCER(18:1)	HCER(18:1)	LCER(18:1)	SM(18:1)
CER(20:0)	DCER(20:0)	HCER(20:0)	LCER(20:0)	SM(20:0)
CER(20:1)	DCER(20:1)	HCER(20:1)	LCER(20:1)	SM(20:1)
CER(22:0)	DCER(22:0)	HCER(22:0)	LCER(22:0)	SM(22:0)
CER(22:1)	DCER(22:1)	HCER(22:1)	LCER(22:1)	SM(22:1)
CER(24:0)	DCER(24:0)	HCER(24:0)	LCER(24:0)	SM(24:0)
CER(24:1)	DCER(24:1)	HCER(24:1)	LCER(24:1)	SM(24:1)
CER(26:0)	DCER(26:0)	HCER(26:0)	LCER(26:0)	SM(26:0)
CER(26:1)	DCER(26:1)	HCER(26:1)	LCER(26:1)	SM(26:1)
	DCER(22:2)			

This panel is for Research Use Only and is not to be used for diagnostic purposes.

Analysis Method and Instrumentation

FIA-MRM-MS (Shimadzu LC/SCIEX QTRAP 5500)

Sample Type and Required Amounts

Sample Type	Sample Requirement
Plasma	200 µL

Others on request.

Contact us to get started
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