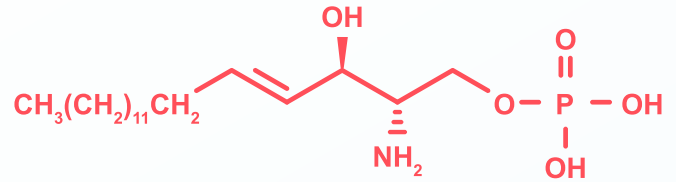




Sphingosine 1-phosphate



Sphingosine-1-phosphate (S1P) is a signaling lipid that controls important physiological processes, including cell migration, differentiation and survival, coagulation, angiogenesis and immunity. S1P is the product of phosphorylation of sphingosine by sphingosine kinase. It is secreted into the extracellular environment and signals via G protein-coupled S1P receptors. S1P is present at high concentrations in blood and at very low concentrations in tissues, where it is degraded by the S1P-lyase. Dysregulations of S1P levels are associated with inflammation and autoimmunity, sepsis and cancer. S1P as a biomarker predicted both ICU admission and mortality after COVID-19 infections. As a major regulator of vascular and immune systems, S1P signaling pathway has emerged as a promising therapeutic target for treating various diseases, including cancer, age-related macular degeneration, multiple sclerosis and inflammatory disorders.

Applications

- ▶ Inflammation & oxidative stress
- ▶ Immune system, infectious disease & COVID-19

Panel	LLOQ
	Plasma/Serum/Resuspended Cells
Sphingosine 1-phosphate	5.00 ng/mL

The panel is for non-GxP testing and is not for diagnostic use

Analysis Method and Instrumentation

LC-MS/MS (Agilent 1290 UHPLC/Sciex QTrap 5500)

Sample Type and Required Amounts

Sample Type	Sample Requirement
Plasma/Serum	100 - 150 µL
Red Blood Cells	Packed Cell Volume ≥100 µL
Others on request	

Contact us to get started
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