

Bioactive Lipid Inhibitor Library

Catalog No: #L7000

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Description

Product Name	Bioactive Lipid Inhibitor Library
Brief Description	<p>Bioactive lipids have been shown to provide health benefits either through modification of tissue fatty acid composition or induction of cell signaling pathways, due to their pivotal role in immune regulation, inflammation, and maintenance of tissue homeostasis. While some health benefits are derived from consumption of short to medium-chain fatty acids, evidence suggests that the polyunsaturated fatty acids (PUFAs) are the most important bioactive lipids. PUFAs are found mostly in plant seed oils and are important substrates for the biosynthesis of cellular hormones (eicosanoids) and other signaling compounds that modulate human health. The beneficial health effects of PUFAs seem to be dependent on their isomer configuration as the cis-isomer is the predominant bioactive form which enhances membrane fluidity when incorporated into cells. Increased membrane fluidity enhances cell to cell communication and helps maintain normal homeostasis or prevent the development of metabolic disorders.</p> <p>The SABs?Bioactive Lipid Compound Library, a unique collection of 213 bioactive lipids related compounds including agonists and antagonists targeting paracrine and autocrine signaling, can be used for research in bioactive lipids, and high throughput screening (HTS) and high content screening (HCS).</p>
Storage	<p>Powder or pre-dissolved DMSO solutions in 96 well plate with optional 2D barcodeShipped with sky ice;</p> <p>Stable for One year as powder, 6 months at - 20 ° C in DMSO or 12months at -80 ° C in DMSO</p>

Application Details

Number of Compounds:213

Product Description

A unique collection of 213 bioactive lipids related compounds for high throughput screening (HTS) and high content screening (HCS), including Agonists & Antagonists, Endocannabinoids, Farnesyl/geranylgeranyl derivatives, HETEs deHETEs, heptoxilins, Polyunsaturated fatty acids, Leukotrienes, lipoxins, LPA & phosphatidic acids, Octadecanoids, PAFs, Prostaglandins & thromboxanes, Retinoids, vitamin D metabolites, Sphingolipids, etc.; Targets include GPCR, HDAC, PPAR, DNA Alkylating, EGFR, etc.; Safety and effectiveness of the small molecules have been demonstrated through preclinical and clinical research; Detailed compound information with structure, target, activity, IC50 value, and biological activity description; Structurally diverse, medicinally active, and cell permeable; NMR and HPLC validated to ensure high purity and quality

Note: This product is for in vitro research use only