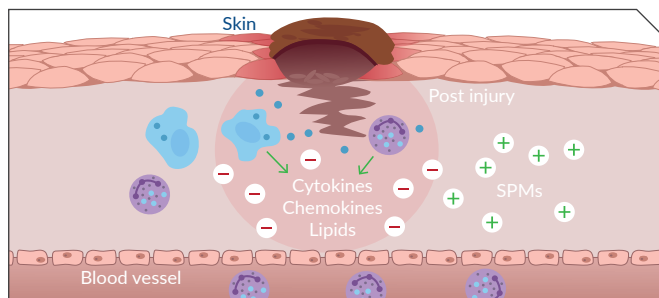


# Specialized Pro-Resolving Mediators



Specialized pro-resolving mediators (SPMs) are an important group of signaling molecules derived from arachidonic acid, eicosapentaenoic acid, docosapentaenoic acid, and docosahexaenoic acid that is liberated during the inflammatory process. Studies have shown that resolvins, lipoxins, maresins, and protectins evoke responses that help to resolve an inflammatory episode. Cayman has synthesized an array of these key lipid mediators to aid in a better understanding of this process.



## SPMs RESOLVE INFLAMMATORY RESPONSE AFTER INJURY/INFECTION

- + Lipoxins
- + Protectins
- + Maresins
- + E-, D-, and T-Series Resolvins

Request the SPM Pathway Wall Poster at [www.caymanchem.com/Literature](http://www.caymanchem.com/Literature)

## Pro-Resolving Compounds

### Resolvins

Item No.	Product Name
10012554	Resolvin D1 (MaxSpec® Standard Also Available)
13060	17(R)-Resolvin D1
10007279	Resolvin D2
11184	Resolvin D2-d <sub>5</sub>
13834	Resolvin D3
19512	Resolvin D3-d <sub>5</sub>
9002686	Resolvin D3 methyl ester
13835	Resolvin D4
10007280	Resolvin D5
10007848	Resolvin E1
10009854	Resolvin E1-d <sub>4</sub>

### Lipoxins, Maresins, and Protectins

Item No.	Product Name
90410	Lipoxin A <sub>4</sub> (MaxSpec® Standard Also Available)
10007737	Lipoxin A <sub>4</sub> -d <sub>5</sub> (MaxSpec® Standard Also Available)
90420	Lipoxin B <sub>4</sub>
10878	Maresin 1
16369	Maresin 2
17007	MCTR1
17008	MCTR2
19067	MCTR3
19064	PCTR1
19065	PCTR2
19066	PCTR3

Common SPMs listed, more compounds including methyl ester and deuterated forms available online

## MaxSpec® Standards

### MAXIMIZE RESULTS

Cayman's line of ready-to-use, quantitative standards designed to simplify mass spectrometry workflows.

## MaxSpec® Quality Guarantee

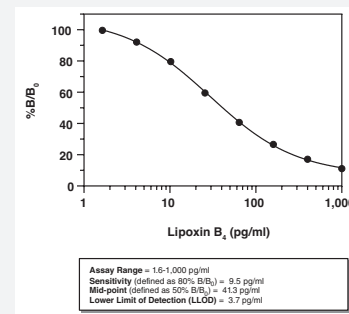
- ✓ Verified concentration
- ✓ LC-MS identity tested
- ✓ HPLC purity tested
- ✓ Ongoing stability testing

**Now Available!** Resolvin D1, Lipoxin A<sub>4</sub>, Lipoxin A<sub>4</sub>-d<sub>5</sub>, Maresin 1-d<sub>5</sub>, and 14(S)-HDHA

# Sensitive, Accurate Quantification of Lipoxin B<sub>4</sub>

## Lipoxin B<sub>4</sub> ELISA Kit - Item No. 501920

- Detect LXB<sub>4</sub> in human plasma, serum, and urine
  - Assay 24 samples in triplicate or 36 samples in duplicate
  - Measure LXB<sub>4</sub> down to 9.5 pg/ml
  - **Incubation:** Overnight | **Development:** 60 minutes
- Read:** 414 nm



## Additional Assay Kits

Item No.	Product Name	Features
601770	Efferocytosis Assay Kit	<ul style="list-style-type: none"> <li>• Study modulators of efferocytosis, apoptosis, pro-resolving mediators, and cross-presentation</li> <li>• Visualize effector (phagocytic) cells and bait (apoptotic) cells simultaneously</li> <li>• Contains CytoTell™ Blue and CFSE Dyes</li> <li>• Includes sufficient reagents to stain 5 x 10<sup>7</sup> effector cells and 2 x 10<sup>8</sup> bait cells</li> </ul>
590410	Lipoxin A <sub>4</sub> ELISA Kit	<ul style="list-style-type: none"> <li>• Detect LXA<sub>4</sub> in multiple sample types</li> <li>• Assay 24 samples in triplicate or 36 samples in duplicate</li> <li>• Measure LXA<sub>4</sub> levels down to 52.4 pg/ml</li> </ul>
501150	Maresin 1 ELISA Kit	<ul style="list-style-type: none"> <li>• Detect MaR1 in human urine</li> <li>• Assay 24 samples in triplicate or 36 samples in duplicate</li> <li>• Measure MaR1 levels down to 6 pg/ml</li> </ul>
500380	Resolvin D1 ELISA Kit	<ul style="list-style-type: none"> <li>• Detect RvD1 in multiple sample types</li> <li>• Assay 24 samples in triplicate or 36 samples in duplicate</li> <li>• Measure RvD1 levels down to 15 pg/ml</li> </ul>
501120	Resolvin D2 ELISA Kit	<ul style="list-style-type: none"> <li>• Detect RvD2 in multiple sample types</li> <li>• Assay 24 samples in triplicate or 36 samples in duplicate</li> <li>• Measure RvD2 levels down to 10 pg/ml</li> </ul>

## Enzymes

Item No.	Product Name	Summary
60122	COX-2 (human recombinant)	An N-terminal His-tagged enzyme expressed in Sf21 cells
18356	COX-2 (ovine recombinant)	A recombinant protein expressed in Sf21 cells
60402	5-Lipoxygenase (human, recombinant)	A recombinant protein expressed in insect cells
10341	12-Lipoxygenase (platelet-type, mouse recombinant)	An active C-terminal His-tagged protein expressed in insect cells
10011263	15-Lipoxygenase-2 (human recombinant)	An active C-terminal His-tagged protein expressed in <i>E. coli</i>
10011669	Soluble Epoxide Hydrolase (human recombinant)	An active N-terminal His-tagged protein expressed in Sf21 cells
10011670	Soluble Epoxide Hydrolase (mouse recombinant)	An N-terminal His-tagged protein expressed in Sf21 cells

## LC-MS Mixtures

Item No.	Product Name	Supplied As	Contains (100 ng/ml of each compound)
19412	Lipoxin LC-MS Mixture	1 ampule	Arachidonic Acid, Lipoxin A <sub>4</sub> , 15(R)-Lipoxin A <sub>4</sub> , Lipoxin B <sub>4</sub>
18702	SPM D-series LC-MS Mixture	1 ampule	Docosahexaenoic Acid, Resolvin D1, 17(R)-Resolvin D1, Resolvin D2, Resolvin D3, Resolvin D5
19417	SPM E-series LC-MS Mixture	1 ampule	Eicosapentaenoic Acid, (±)18-HEPE, Resolvin E1

View a complete list of our Specialized Pro-Resolving Mediators  
at [www.caymanchem.com](http://www.caymanchem.com)