

Product Datasheet

17(R)-Resolvin D3 (orb2283151)

Description

17(R)-Resolvin D3 (17(R)-RvD3) is an aspirin-triggered epimer of resolvin D3, produced from docosahexaenoic acid (DHA) through the action of COX-2 in the presence of aspirin, via a 17(R)-hydroperoxy DHA (17(R)-HDHA) intermediary. Identified in mouse inflammatory exudates, 17(R)-RvD3 notably inhibits the transmigration of isolated human polymorphonuclear cells (PMNs) and fosters the efferocytosis of apoptotic PMNs by macrophages. Furthermore, in a mouse model of zymosan-induced peritonitis, 17(R)-RvD3 administration (10 ng/animal) significantly curtails neutrophil infiltration into the peritoneal cavity and modulates cytokine levels by reducing IL-6 and increasing IL-10 in the inflammatory exudate. It engages GPR32, evidenced by activation in a β -arrestin reporter assay and augments phagocytosis more effectively in CHO cells overexpressing GPR32 compared to controls. Additionally, 17(R)-RvD3 enhances the clearance of etoposide-induced tumor cell debris by monocyte-derived macrophages in H460 human lung carcinoma.

Storage

-20°C

Note

For research use only

Formula $C_{22}H_{32}O_5$ **Purity**

98.00%

MW

376.49

CAS Number

1427475-53-3

SMILESC([C@H])(/C=C/C=C/C=C/[C@H])(CCC(O)=O)O)/C=C/C=C/[C@@H](C/C=C\CC)O**Expiration Date**

12 months from date of receipt.

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