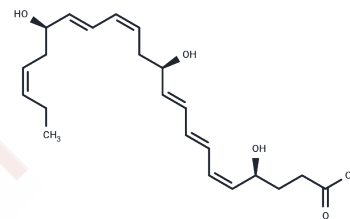


17(R)-Resolvin D3

Chemical Properties

CAS No. :	1427475-53-3
Formula:	C ₂₂ H ₃₂ O ₅
Molecular Weight:	376.49
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

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.
Targets(IC50)	Others, Drug Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6561 mL	13.2806 mL	26.5611 mL
5 mM	0.5312 mL	2.6561 mL	5.3122 mL
10 mM	0.2656 mL	1.3281 mL	2.6561 mL
50 mM	0.0531 mL	0.2656 mL	0.5312 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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