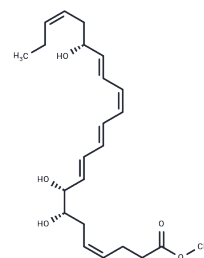


## 17(R)-Resolvin D1 methyl ester

## Chemical Properties

CAS No. :	937738-64-2
Formula:	C23H34O5
Molecular Weight:	390.5
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 D1 (17(R)-RvD1) is an aspirin-triggered epimer of RvD1 that equivalently inhibits human polymorphonuclear leukocyte migration across the endothelium (EC50= ~30 nM), a precursor to acute inflammation. Unlike RvD1, it resists rapid degradation by eicosanoid oxidoreductases. In a mouse peritonitis model, 17(R)-RvD1 dose-dependently reduces leukocyte infiltration, achieving up to a 35% decrease with a 100 ng dose. Additionally, its methyl ester derivative, designed to enhance its pharmacokinetic and distribution properties as a more lipophilic prodrug, can be converted back into the active acid form by intracellular esterases.
Targets(IC50)	Others, Endogenous Metabolite

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5608 mL	12.8041 mL	25.6082 mL
5 mM	0.5122 mL	2.5608 mL	5.1216 mL
10 mM	0.2561 mL	1.2804 mL	2.5608 mL
50 mM	0.0512 mL	0.2561 mL	0.5122 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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