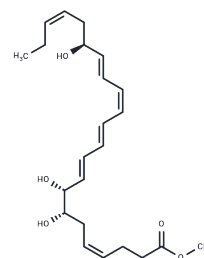


## Resolvin D1 methyl ester

## Chemical Properties

CAS No. :	937738-63-1
Formula:	C <sub>23</sub> H <sub>34</sub> O <sub>5</sub>
Molecular Weight:	390.51
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	Resolvin D1 is produced physiologically from the sequential oxygenation of docosahexaenoic acid by 15- and 5-lipoxygenase . It reduces human polymorphonuclear leukocyte transendothelial migration, the earliest event in acute inflammation, with an EC <sub>50</sub> value of ~30 nM. RvD1 methyl ester is a methyl ester version of the free acid that may act as a lipophilic prodrug form that will alter its distribution and pharmacokinetic properties. The methyl ester moiety is susceptible to cleavage by intracellular esterases, leaving the free acid.
Targets(IC <sub>50</sub> )	Others

## Solubility Information

Solubility	PBS (pH 7.2): 0.05 mg/mL (0.13 mM),Sonication is recommended. DMF: 50 mg/mL (128.04 mM),Sonication is recommended. Ethanol: 50 mg/mL (128.04 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5608 mL	12.8038 mL	25.6075 mL
5 mM	0.5122 mL	2.5608 mL	5.1215 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.

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