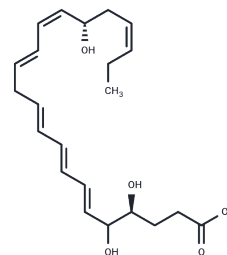


## Resolvin D4

## Chemical Properties

CAS No. :	1025684-60-9
Formula:	C <sub>22</sub> H <sub>32</sub> O <sub>5</sub>
Molecular Weight:	376.493
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 D4 (RvD4) is a specialized pro-resolving mediator derived from docosahexaenoic acid . [1] It has been detected in human milk, in the dorsal pouch of mice before and after infection with <i>S. aureus</i> , and in untreated tissues from humans, mice, and sardines.[2][3] RvD4, at 10 ng/mouse, reduces neutrophil infiltration in zymosan A-induced peritonitis and, at 200 ng/mouse, diminishes neutrophil infiltration in response to <i>S. aureus</i> infection. [3] With isolated cells, RvD4 promotes phagocytosis of bacteria, opsonized zymosan A, and apoptotic neutrophils by human macrophages.[3] It also promotes the clearance of apoptotic neutrophils by human fibroblasts.[3]
Targets(IC50)	Others,Antibacterial

## Solubility Information

Solubility	DMF: 50 mg/mL (132.8 mM),Sonication is recommended. Ethanol: 50 mg/mL (132.8 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	2.6561 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.

Reference

Serhan, C.N., and Savill, J. Resolution of inflammation: The beginning programs the end. Nature Immunology 6 (12), 1191-1197 (2005).

Arnardottir, H., Orr, S.K., Dalli, J., et al. Human milk proresolving mediators stimulate resolution of acute inflammation. Mucosal. Immunol. 9(3), 757-766 (2016).

Winkler, J.W., Orr, S.K., Dalli, J., et al. Resolvin D4 stereoassignment and its novel actions in host protection and bacterial clearance. Sci.Rep. 6, (2016).

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