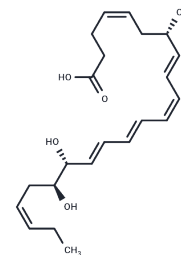


## Resolvin D2

## Chemical Properties

CAS No. :	810668-37-2
Formula:	C <sub>22</sub> H <sub>32</sub> O <sub>5</sub>
Molecular Weight:	376.49
Storage:	Store at low temperature, Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Resolvin D2 (RvD2) is a potent TRPV1 inhibitor and pro-absorptive mediator with anti-inflammatory, anti-infective and pro-absorptive effects for the study of immune disorders and cancer.
Targets(IC50)	TRP/TRPV Channel
In vitro	Resolvin D2 is a potent inhibitor of TRPV1 (IC <sub>50</sub> = 0.1 nM) and TRPA1 (IC <sub>50</sub> = 2 nM) in primary sensory neurons. It may be ideal for the treatment of periapical lesions by promoting positive regression of inflammation and regeneration of pulp-like tissue following root canal infection. Resolvin D2 also reduces leukocyte-endothelial cell interactions in vivo through endothelium-dependent nitric oxide production and direct modulation of leukocyte adhesion receptor expression. [1][2]
In vivo	Peripheral injection of Resolvin D2 (10 ng; plantar injection) has potent inhibitory effects on inflammatory pain. [3]

## 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

Siddiqui YD, et al. Resolvin D2 Induces Resolution of Periapical Inflammation and Promotes Healing of Periapical Lesions in Rat Periapical Periodontitis. *Front Immunol.* 2019 Feb 26;10:307.

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Park CK, et al. Resolvin D2 is a potent endogenous inhibitor for transient receptor potential subtype V1/A1, inflammatory pain, and spinal cord synaptic plasticity in mice: distinct roles of resolvin D1, D2, and E1. *J Neurosci.* 2011 Dec 14;31(50):18433-8.

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