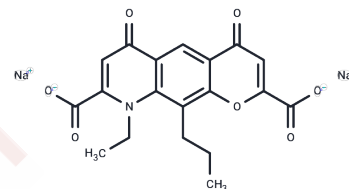


Nedocromil sodium

Chemical Properties

CAS No. :	69049-74-7
Formula:	C ₁₉ H ₁₇ NNaO ₇
Molecular Weight:	394.335
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	Nedocromil sodium is a pharmacologic stabilizer of mast cells, has been shown to normalize cytokine levels and attenuate cardiac remodeling.
Targets(IC50)	Others,Histamine Receptor,Leukotriene Receptor,Prostaglandin Receptor
In vitro	Nedocromil treatment halted contractile dysfunction in diabetic mice and reduced cardiac mast cell density, which correlated with reduced bioactive enzyme secretions, reduced expression of extracellular matrix remodeling factors and collagen synthesis, and normalized cytokine levels.Nedocromil inhibits the release of histamine, LTC ₄ , and PGD ₂ from mast cells challenged with antigen (with IC ₃₀ values of 2.1 μM, 2.3 μM, and 1.9 μM, respectively) and with anti-human IgE (IC ₃₀ values of 4.7 μM, 1.3 μM, and 1.3 μM, respectively)[1].
In vivo	Treated the diabetic mice with nedocromil for 12 weeks and then examined their hearts for signs of cardiac remodeling and quantified contractile function.?We observed significantly impaired heart function in diabetic mice, as well as increased cardiac mast cell density and elevated mast cell secretions that correlated with gene expression and aberrant cytokine levels associated with cardiac remodeling.

Solubility Information

Solubility	DMSO: 5.2 mg/mL (13.19 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	2.5359 mL	12.6794 mL	25.3588 mL
5 mM	0.5072 mL	2.5359 mL	5.0718 mL
10 mM	0.2536 mL	1.2679 mL	2.5359 mL
50 mM	0.0507 mL	0.2536 mL	0.5072 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

Myocardial remodeling in diabetic cardiomyopathy associated with cardiac mast cell activation. Huang ZG, et al. PLoS One. 2013;8(3):e60827.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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