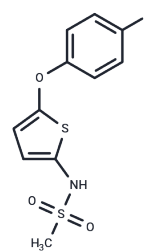


RWJ 63556

## Chemical Properties

CAS No. : 190967-35-2  
 Formula: C<sub>11</sub>H<sub>10</sub>FNO<sub>3</sub>S<sub>2</sub>  
 Molecular Weight: 287.33  
 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   | RWJ 63556, an orally active inhibitor of COX-2 selective [5-lipoxygenase], exhibits anti-inflammatory activities.             |
| Targets(IC50) | COX,Lipoxygenase  |
| In vitro      | RWJ 63556 is a potent leukocyte influx inhibitor over a period of 24 hr and maintains its in vitro profile on eicosanoids[1]. |
| In vivo       | RWJ 63556 (1mg/kg, i.v.) significantly inhibits the development of SP-induced oedema [2].                                     |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | DMSO: 55 mg/mL (191.42 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.96 mM),Sonication is recommended.<br><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

### Preparing Stock Solutions

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|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.4803 mL | 17.4016 mL | 34.8032 mL |
| 5 mM  | 0.6961 mL | 3.4803 mL  | 6.9606 mL  |
| 10 mM | 0.348 mL  | 1.7402 mL  | 3.4803 mL  |
| 50 mM | 0.0696 mL | 0.348 mL   | 0.6961 mL  |

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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

- Kirchner T, et al. Evaluation of the antiinflammatory activity of a dual cyclooxygenase-2 selective/5-lipoxygenase inhibitor, RWJ 63556, in a canine model of inflammation. *J Pharmacol Exp Ther.* 1997 Aug;282(2):1094-101.
- Le Filliatre G, et al. Cyclo-oxygenase and lipoxygenase pathways in mast cell dependent-neurogenic inflammation induced by electrical stimulation of the rat saphenous nerve. *Br J Pharmacol.* 2001 Apr;132(7):1581-9.

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