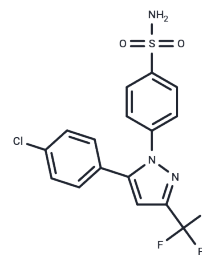


SC-236

## Chemical Properties

CAS No. : 170569-86-5  
Formula: C<sub>16</sub>H<sub>11</sub>ClF<sub>3</sub>N<sub>3</sub>O<sub>2</sub>S  
Molecular Weight: 401.79  
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	SC-236 (Sc 236) is an orally active and selective inhibitor of COX-2 (IC <sub>50</sub> of 0.005 μM and 17.8 μM for COX-2 and COX-1, respectively).
Targets(IC <sub>50</sub> )	Apoptosis,COX,PPAR
In vivo	SC-236 protects against cartilage damage in addition to reducing inflammation and pain for those with osteoarthritis

## Solubility Information

Solubility	DMSO: 22.5 mg/mL (56 mM),Sonication is recommended. (< 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 (4.98 mM),Sonication is recommended. <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	2.4889 mL	12.4443 mL	24.8886 mL
5 mM	0.4978 mL	2.4889 mL	4.9777 mL
10 mM	0.2489 mL	1.2444 mL	2.4889 mL
50 mM	0.0498 mL	0.2489 mL	0.4978 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

Kim S J , Jeong H J , Moon P D , et al. The COX-2 inhibitor SC-236 exerts anti-inflammatory effects by suppressing phosphorylation of ERK in a murine model[J]. Life Sciences, 2007, 81(11):0-872.

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