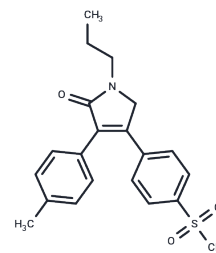


## Imrecoxib

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 395683-14-4   |
| Formula:          | C <sub>21</sub> H <sub>23</sub> N <sub>3</sub> O <sub>3</sub> S   |
| Molecular Weight: | 369.48  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|                            |  |
|----------------------------|--|
| Description                | Imrecoxib (BAP-909) is a novel and selective cyclooxygenase 2 (COX-2) inhibitor (IC <sub>50</sub> : 18 nM) that also inhibits COX-1 activity (IC <sub>50</sub> : 115 nM) and exhibits anti-inflammatory effects.   |
| Targets(IC <sub>50</sub> ) | COX  |
| In vitro                   | In U937 cells, Imrecoxib (0.1-10 μM; 24 hours) reduces COX-2 mRNA level induced by PMA+LPS in a dose-dependent manner.   |
| In vivo                    | Imrecoxib (gastrointestinal administration; 5-20 mg/kg; started on day 7; 26 days) diminishes the secondary paw swelling. It also inhibits heat-inactivated BCG induced-inflammatory polyarthritis. Imrecoxib (gastrointestinal administration; 5-20 mg/kg; 1 hour before carrageenan injection) suppresses carrageenan-induced acute inflammation, and the inhibitory effect is maximal at 4 hours. |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 90 mg/mL (243.59 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: 3.3 mg/mL (8.93 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  | 2.7065 mL | 13.5325 mL | 27.0651 mL |
| 5 mM  | 0.5413 mL | 2.7065 mL  | 5.413 mL   |
| 10 mM | 0.2707 mL | 1.3533 mL  | 2.7065 mL  |
| 50 mM | 0.0541 mL | 0.2707 mL  | 0.5413 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

Chen XH, et al. Imrecoxib: a novel and selective cyclooxygenase 2 inhibitor with anti-inflammatory effect. *Acta Pharmacol Sin.* 2004 Jul;25(7):927-31.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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