

SC 19220

## Chemical Properties

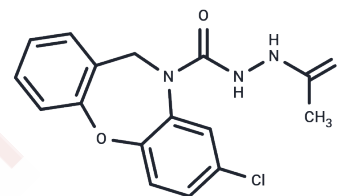
CAS No. : 19395-87-0

Formula: C<sub>16</sub>H<sub>14</sub>ClN<sub>3</sub>O<sub>3</sub>

Molecular Weight: 331.75

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 19220 is a prostaglandin E2 receptor EP1 antagonist. SC 19220 inhibits RANKL-induced osteoclastogenesis by inhibiting the RANK/RANKL signaling pathway in osteoclast precursors.
Targets(IC50)	Prostaglandin Receptor
In vivo	SC 19220 (5-20 mg/kg, i.v.), a competitive PGE receptor antagonist, enhances bladder capacity and attenuates voiding efficiency when voiding is induced by slow intravesical filling in urethane-anesthetized rats. [1]

## Solubility Information

Solubility	DMSO: 80 mg/mL (241.15 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: 3.3 mg/mL (9.95 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	3.0143 mL	15.0716 mL	30.1432 mL
5 mM	0.6029 mL	3.0143 mL	6.0286 mL
10 mM	0.3014 mL	1.5072 mL	3.0143 mL
50 mM	0.0603 mL	0.3014 mL	0.6029 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

Maggi CA, et al. The effect of SC-19220, a prostaglandin antagonist, on the micturition reflex in rats. Eur J Pharmacol. 1988 Aug 2;152(3):273-9.

Santangelo S, et al. Prostaglandin E2 receptor antagonist (SC-19220) treatment restores the balance to bone marrow myelopoiesis after burn sepsis. J Trauma. 2000 May;48(5):826-30; discussion 830-1.

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