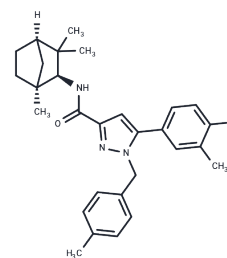


SR144528

## Chemical Properties

CAS No. : 192703-06-3  
 Formula: C<sub>29</sub>H<sub>34</sub>ClN<sub>3</sub>O  
 Molecular Weight: 476.05  
 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	SR144528 is an antagonist of the CB2 receptor (K <sub>i</sub> = 0.6 nM) and inhibits microsomal ACAT activity (IC <sub>50</sub> = 3.6 μM).
Targets(IC50)	Cannabinoid Receptor
In vitro	SR144528(1 μM) stimulates the forskolin-sensitive adenylyl cyclase activity in CHO-CB2 cells in a concentration-dependent manner with an EC <sub>50</sub> of 26 nM[1]. In Raw 264.7 macrophages, SR144528 reduces the activity of caspase 3. SR144528(10 μM) inhibits microsomal ACAT activity(68%)[2].
In vivo	SR144528 enhances delayedgastric emptying[3].

## Solubility Information

Solubility	DMSO: 150 mg/mL (315.09 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 (4.2 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	2.1006 mL	10.5031 mL	21.0062 mL
5 mM	0.4201 mL	2.1006 mL	4.2012 mL
10 mM	0.2101 mL	1.0503 mL	2.1006 mL
50 mM	0.042 mL	0.2101 mL	0.4201 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

Rinaldi-Carmona M, et al. SR 144528, the first potent and selective antagonist of the CB2 cannabinoid receptor. *J Pharmacol Exp Ther.* 1998 Feb;284(2):644-50.

Thewke D, et al. AM-251 and SR144528 are acyl CoA:cholesterol acyltransferase inhibitors. *Biochem Biophys Res Commun.* 2009 Apr 3;381(2):181-6.

Abalo R, et al. The cannabinoid antagonist SR144528 enhances the acute effect of WIN 55,212-2 on gastrointestinal motility in the rat. *Neurogastroenterol Motil.* 2010 Jun;22(6):694-e206.

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