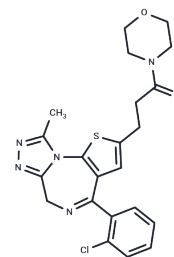


## Apafant

## Chemical Properties

CAS No. :	105219-56-5
Formula:	C <sub>22</sub> H <sub>22</sub> ClN <sub>5</sub> O <sub>2</sub> S
Molecular Weight:	455.96
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	Apafant (WEB 2086) is a highly potent platelet activating factor (PAF) antagonist that blocks eosinophil activation and can be used to study experimental allergic conjunctivitis in guinea pigs.
Targets(IC50)	PAFR
In vivo	Guinea pigs were actively sensitized and OA solution was instilled into the eyes of guinea pigs on Days 15 and 17 to elicit the allergic conjunctivitis. To examine the effects of Apafant on allergic conjunctivitis, Apafant ophthalmic solution was topically administered 0.1%, 1%, q.i.d. through Days 14 to 17. Compared to the controls (vehicle treatments), the animals treated with Apafant ophthalmic solution showed significantly reduced clinical symptoms (redness and edema) and itch-scratch responses in both the first and second antigen challenges. [1]

## Solubility Information

Solubility	DMSO: 30 mg/mL (65.8 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 (7.24 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.1932 mL	10.9659 mL	21.9317 mL
5 mM	0.4386 mL	2.1932 mL	4.3863 mL
10 mM	0.2193 mL	1.0966 mL	2.1932 mL
50 mM	0.0439 mL	0.2193 mL	0.4386 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

Kato M, et al. Apafant, a potent platelet-activating factor antagonist, blocks eosinophil activation and is effective in the chronic phase of experimental allergic conjunctivitis in guinea pigs. J Pharmacol Sci. 2004 Aug;95(4):435-42.

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