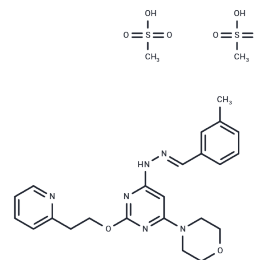


## Apilimod mesylate

## Chemical Properties

CAS No. :	870087-36-8
Formula:	C <sub>25</sub> H <sub>34</sub> N <sub>6</sub> O <sub>8</sub> S <sub>2</sub>
Molecular Weight:	610.7
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	Apilimod mesylate (STA 5326 mesylate) is a potent IL-12/IL-23 inhibitor.
Targets(IC50)	IL Receptor, Interleukin, PI3K

## Solubility Information

Solubility	DMSO: 20.8 mg/mL (34.06 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: 1 mg/mL (1.64 mM), Sonication is recommended. 10% DMSO+90% Saline: 2.08 mg/mL (3.41 mM), Solution. <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

	1mg	5mg	10mg
1 mM	1.6375 mL	8.1873 mL	16.3747 mL
5 mM	0.3275 mL	1.6375 mL	3.2749 mL
10 mM	0.1637 mL	0.8187 mL	1.6375 mL
50 mM	0.0327 mL	0.1637 mL	0.3275 mL

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

Wada Y, et al. Selective abrogation of Th1 response by STA-5326, a potent IL-12/IL-23 inhibitor. *Blood*. 2007 Feb 1; 109(3):1156-64.

Billich A. Drug evaluation: apilimod, an oral IL-12/IL-23 inhibitor for the treatment of autoimmune diseases and common variable immunodeficiency. *IDrugs*. 2007 Jan;10(1):53-9.

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