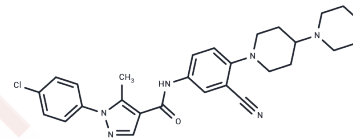


Y-320

Chemical Properties

CAS No. : 288250-47-5
 Formula: C₂₇H₂₉ClN₆O₂
 Molecular Weight: 505.01
 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	Y-320 is a new phenylpyrazole anilide immunomodulator.
Targets(IC50)	Apoptosis, IL Receptor, Interleukin, Lipase
In vitro	Y-320 can inhibit the production of IFN- γ and TNF- α in mouse CD4 T cells stimulated by IL-15, CXCL12, and anti-CD3 monoclonal antibody.
In vivo	Y-320 (administered orally at doses of 0.3-3 mg/kg) enhances the improvement of collagen-induced arthritis (CIA) in mice, concurrently reducing the expression levels of IL-17 mRNA within arthritic joints. Additionally, it has demonstrated therapeutic efficacy for CIA in crab-eating macaques.

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 9 mg/mL (17.82 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: 0.5 mg/mL (0.99 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

	1mg	5mg	10mg
1 mM	1.9802 mL	9.9008 mL	19.8016 mL
5 mM	0.396 mL	1.9802 mL	3.9603 mL
10 mM	0.198 mL	0.9901 mL	1.9802 mL
50 mM	0.0396 mL	0.198 mL	0.396 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

Ushio H, et al. Pharmaceuticals (Basel). 2013, 7(1), 1-17.

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