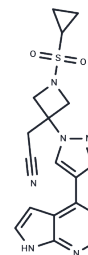


Ilunocitinib

Chemical Properties

CAS No. :	1187594-14-4
Formula:	C17H17N7O2S
Molecular Weight:	383.43
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Ilunocitinib is a non-selective and orally active Janus kinase (JAK) inhibitor for the control of pruritus and atopic dermatitis caused by atopic dermatitis in dogs.
Targets(IC50)	JAK
In vivo	In a canine atopic dermatitis model, Ilunocitinib (0.6-0.8mg/kg, oral, once daily, up to 112 days) significantly alleviated pruritus and skin lesions, showing superior efficacy over Oclacitinib from Day 28 onward, with good tolerability[1].

Solubility Information

Solubility	DMSO: 200 mg/mL (521.61 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: 5 mg/mL (13.04 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	2.608 mL	13.0402 mL	26.0804 mL
5 mM	0.5216 mL	2.608 mL	5.2161 mL
10 mM	0.2608 mL	1.304 mL	2.608 mL
50 mM	0.0522 mL	0.2608 mL	0.5216 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

Forster S, Boegel A, Despa S, Trout C, King S. Comparative efficacy and safety of ilunocitinib and oclacitinib for the control of pruritus and associated skin lesions in dogs with atopic dermatitis. *Vet Dermatol.* 2025 Apr;36(2):165-176.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481