

## Cindunistat

## Chemical Properties

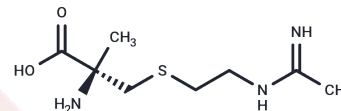
CAS No. : 364067-22-1

Formula: C<sub>8</sub>H<sub>17</sub>N<sub>3</sub>O<sub>2</sub>S

Molecular Weight: 219.3

Storage: Store under nitrogen, Keep away from moisture  
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	Cindunistat (free base) is an orally available selective iNOS inhibitor for the study of arthritis.
Targets(IC50)	NOS,NO Synthase
In vivo	In 1457 patients (50 mg/day, n=485; 200 mg/day, n=486; placebo, n=486), 1048 (71.9%) completed the study. 56% had KLG3. In KLG2 patients, JSN after 48 weeks was lower with Cindunistat 50 mg/day versus placebo (p=0.032). Least-squares mean±SE JSN with Cindunistat 50 mg/day (-0.048±0.028 mm) and 200 mg/day (-0.062±0.028 mm) were 59.9% (95% CI 6.8% to 106.9%) and 48.7% (95% CI -8.4% to 93.9%) of a placebo, improvement was not maintained at 96 weeks. No improvement was observed for KLG3 patients at either time point. Cindunistat did not improve joint pain or function but was generally well tolerated. Cindunistat (50 or 200 mg/day) did not slow the rate of JSN versus placebo. After 48 weeks, KLG2 patients showed less JSN.[1]

## Solubility Information

Solubility	DMSO: 55 mg/mL (250.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	4.560 mL	22.7998 mL	45.5996 mL
5 mM	0.912 mL	4.560 mL	9.1199 mL
10 mM	0.456 mL	2.280 mL	4.560 mL
50 mM	0.0912 mL	0.456 mL	0.912 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

Hellio le Graverand MP, et al. A 2-year randomised, double-blind, placebo-controlled, multicentre study of oral selective iNOS inhibitor, cindunostat (SD-6010), in patients with symptomatic osteoarthritis of the knee. *Ann Rheum Dis.* 2013 Feb;72(2):187-95.

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