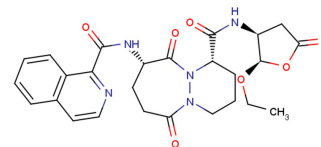


## Prlnacasan

## Chemical Properties

CAS No.:	192755-52-5
Formula:	C <sub>26</sub> H <sub>29</sub> N <sub>5</sub> O <sub>7</sub>
Molecular Weight:	523.54
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Prlnacasan inhibits proinflammatory cytokines IL-18, IL-1 $\beta$ , and IFN- $\gamma$ . Prlnacasan is an effective, non-peptide, and orally active interleukin-1 $\beta$ converting enzyme inhibitor (K <sub>i</sub> : 1.4 nM). Prlnacasan has the potential for osteoarthritis and rheumatoid arthritis treatment.
Targets(IC <sub>50</sub> )	Interleukin-1 $\beta$ converting enzyme: 1.4 nM (k <sub>i</sub> )
In vivo	Prlnacasan treatment does not appear to affect the weight of the animals. Prlnacasan (0 -50 mg/kg; oral gavage; twice a day; for 6 weeks; female Balb/c mice) treatment decreases joint damage [1].

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.91 mL	9.55 mL	19.101 mL
5 mM	0.382 mL	1.91 mL	3.82 mL
10 mM	0.191 mL	0.955 mL	1.91 mL
50 mM	0.038 mL	0.191 mL	0.382 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Rudolphi K, et al. Prlnacasan, an inhibitor of interleukin-1beta converting enzyme, reduces joint damage in two murine models of osteoarthritis. Osteoarthritis Cartilage. 2003 Oct;11(10):738-46.
2. Loher F, et al. The interleukin-1 beta-converting enzyme inhibitor prlnacasan reduces dextran sulfate sodium-induced murine colitis and T helper 1 T-cell activation. J Pharmacol Exp Ther. 2004 Feb;308(2):583-90.

Inhibitors · Natural Compounds · Compound Libraries

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