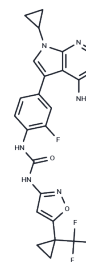


## Ofirnoflastum

## Chemical Properties

CAS No. :	2731294-23-6
Formula:	C <sub>23</sub> H <sub>19</sub> F <sub>4</sub> N <sub>7</sub> O <sub>2</sub>
Molecular Weight:	501.44
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	Ofirnoflastum (Ofirnoflast) is a selective serine/threonine-protein kinase Nek7 inhibitor that exerts potent anti-inflammatory effects by suppressing Nek7-dependent NLRP3 inflammasome activation, reducing caspase-1 cleavage, IL-1 $\beta$ and IL-18 secretion, and pyroptotic cell death in vitro, while significantly attenuating cytokine production and tissue injury in animal models of acute and chronic inflammation, supporting its therapeutic potential in autoimmune and inflammatory diseases.
Targets(IC50)	Serine/threonin kinase
In vivo	In animal models of inflammatory diseases, such as gout and atherosclerosis, the administration of Ofirnoflastum is associated with the prevention of NLRP3 inflammasome-mediated responses. In neurodegenerative disorder models, the inhibitor reduces the assembly of the inflammasome complex, thereby modulating the inflammatory microenvironment in the target tissues [1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (159.54 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.9943 mL	9.9713 mL	19.9426 mL
5 mM	0.3989 mL	1.9943 mL	3.9885 mL
10 mM	0.1994 mL	0.9971 mL	1.9943 mL
50 mM	0.0399 mL	0.1994 mL	0.3989 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

Ofirnoflastum (Ofirnoflast). WHO Drug Information, Vol. 37, No. 4, 2023.

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