JBI-589

Cat. No.: HY-153450

CAS No.: 2308504-22-3

Molecular Formula: $C_{29}H_{28}FN_5O$

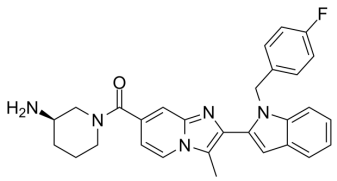
Molecular Weight: 481.56

Target: Protein Arginine Deiminase

Pathway: Epigenetics

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (259.57 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0766 mL	10.3829 mL	20.7658 mL
	5 mM	0.4153 mL	2.0766 mL	4.1532 mL
	10 mM	0.2077 mL	1.0383 mL	2.0766 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

JBI-589 is a non-covalent PAD4 isoform-selective inhibitor. JBI-589 reduces CXCR2 expression and blocks neutrophil chemotaxis. JBI-589 reduces primary tumor and metastases, and enhances the anti-tumor effect of checkpoint inhibitors[1].

REFERENCES

[1]. Deng H, et al. A Novel Selective Inhibitor JBI-589 Targets PAD4-Mediated Neutrophil Migration to Suppress Tumor Progression. Cancer Res. 2022 Oct 4;82(19):3561-3572.

[2]. Gajendran C, et al. Alleviation of arthritis through prevention of neutrophil extracellular traps by an orally available inhibitor of protein arginine deiminase 4. Sci Rep. 2023 Feb 23;13(1):3189.

Caution: Product has not been fully validated for medical applications. For research use only.

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