

Product Data Sheet

Product Name: JBI-589
Cat. No.: GC73447

Chemical Properties

Cas. No. 2308504-22-3

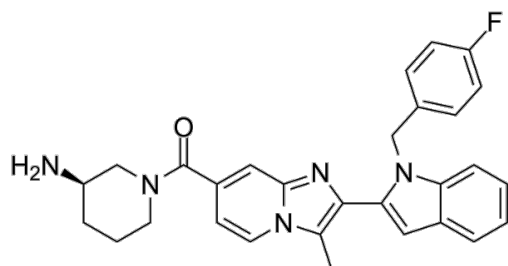
Formula $C_{29}H_{28}FN_5O$ M.Wt 481.56

Solubility DMSO : 125 mg/mL (259.57 mM; Storage -20°C
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

JBI-589 is a non-covalent PAD4 isoform-selective inhibitor with oral bioavailability. JBI-589 reduces

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

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CXCR2 expression and blocks neutrophil chemotaxis. JBI-589 reduces primary tumor and metastases, and enhances the anti-tumor effect of checkpoint inhibitors. JBI-589 can be used in cancer research.

JBI-589 (1 μ M, 2 h) significantly downregulates the expression of CXCR2 on neutrophils and reduces their migration induced by CXCL1 in vitro, with no effect on the suppressive activity of Ly6G cells generated from HPCs[1].

JBI-589 (50 mg/kg, p.o., twice a day for 24 days) significantly inhibits the growth of primary tumors in LL2 and B16F10 tumor C57BL/6 mouse models[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.

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