

Product Data Sheet

Product Name: VU534
Cat. No.: GC71353

Chemical Properties

Cas. No. 923509-20-0

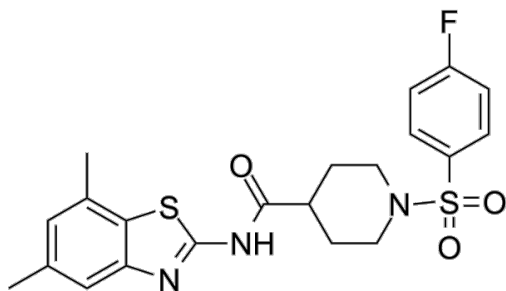
Formula $C_{21}H_{22}FN_3O_3S_2$ M.Wt 447.55

Solubility DMSO : 25 mg/mL (55.86 mM; Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO) Storage -20°C

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

VU534 is a NAPE-PLD activator, with an EC₅₀ of 0.30 μM. VU534 is dual inhibitors of FAAH and sEH (IC₅₀ of 1.2 μM). VU534 increases efferocytosis in a NAPE-PLD dependent manner. VU534 has the potential for cardiometabolic diseases study [1] .

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

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VU534 (up to 30 μ M, 24 h) shows minimal cytotoxicity in HepG2 and Raw264.7 cell lines [1].

VU534 (3-30 μ M, 1 h) increases NAPE-PLD activity in Raw264.7 cells [1].

VU534 (1 h) increases NAPE-PLD activity in HepG2 cells, with the **EC₅₀** values of 1.5 μ M [1].

VU534 (5 μ M, 1 h) increases NAPE-PLD activity 1.5-fold, but not reverses LEI-401-inhibited NAPE-PLD activity [1].

VU534 (10 μ M, 6 h) significantly enhances efferocytosis in bone-marrow-derived macrophages, but not work in Napepld^{-/-} KO [1].

References:

[1]. Jonah E Zarrow, et al. Small Molecule Activation of NAPE-PLD Enhances Efferocytosis by Macrophages. ACS Chem. Biol. 2023, 18, 8, 1891–1904.

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