
Product Data Sheet

Product Name: CHMFL-PI3KD-317

Cat. No.: GC65969

Chemical Properties

Cas. No. 2244992-76-3

Formula $C_{21}H_{24}ClN_5O_3S_2$

M.Wt 494.03

Solubility

Storage

Store at -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

CHMFL-PI3KD-317 is a highly potent, selective and orally active **PI3K δ** inhibitor, with an **IC₅₀** of 6 nM, and exhibits over 10-1500 fold selectivity over other class I, II and III PIKK family isoforms, such as PI3K α (IC₅₀, 62.6 nM), PI3K β (IC₅₀, 284 nM), PI3K γ (IC₅₀, 202.7 nM), PIK3C2A (IC₅₀, >10000 nM), PIK3C2B (IC₅₀, 882.3 nM), VPS34 (IC₅₀, 1801.7 nM), PI4KIIIA (IC₅₀, 574.1 nM) and PI4KIIIB (IC₅₀, 300.2 nM). CHMFL-PI3KD-317 inhibits PI3K δ -mediated Akt T308 phosphorylation in Raji cells, with an EC₅₀ of 4.3 nM. CHMFL-PI3KD-317 has antiproliferative effects on cancer cells^[1].

CHMFL-PI3KD-317 has antiproliferative effects, with GI₅₀s of 3.5 \pm 0.8, 4.0 \pm 0.9, 4.8 \pm 0.2, 3.3 \pm 0.2, 3.0 \pm 0.4 μ M against PF382, NALM-6, MV4-11, MOLM-14 and MOLM-13 cells, respectively^[1].

CHMFL-PI3KD-317 (Compound 15i; 25, 50 and 100 mg/kg/day, p.o., for 14 days) inhibits the growth of the MOLM14 tumor in mice^[1].

CHMFL-PI3KD-317 shows favorable oral bioavailability and acceptable half-life (T_{1/2} = 3.28 h) in Sprague-Dawley rats^[1].

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

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Animal Model: Female nu/nu mice bearing MOLM-14 tumor xenografts^[1]

Dosage: 25, 50 and 100?mg/kg/day

Administration: P.O. for 14 days

Result: Inhibited the growth of the MOLM14 tumor without mortality or obvious weight loss in mice.

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