Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

WZ811

Catalog No: tcsc1003

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
55778-02-4

Formula:
$C_{18}H_{18}N_4$

Pathway:
GPCR/G Protein;Immunology/Inflammation

Target:
CXCR;CXCR

Purity / Grade:
>98%

Solubility:
DMSO : 10 mg/mL (34.44 mM; Need ultrasonic)

Observed Molecular Weight:
290.36

Product Description

WZ811 is a potent **CXCR4** antagonist, effectively inhibits TN14003 binding to **CXCR4**, with an $\mathbf{EC_{50}}$ of 0.3 nM.

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IC50 & Target: EC50: 0.3 nM (CXCR4)[1]

In Vitro: WZ811 (Compound 32) is a potent CXCR4 antagonist, effectively inhibits TN14003 binding to CXCR4, with an EC_{50} of 0.3 nM. WZ811 also suppresses CXCR4/stromal cell-derived factor-1 (SDF-1)-mediated modulation of cyclic adenosine monophosphate (cAMP) levels (EC_{50}, 1.2 nM) and SDF-1 induced Matrigel invasion (EC_{50}, 5.2 nM)[1]. WZ811 (1, 5, 10, 20, 40 μM) inhibits TF-1 and UT-7 cells proliferation in a dose dependent manner both after treatment for 24 h and 48 h. Moreover, WZ811 (5 μM) induces cell apoptosis and enhances the sensitivity of cells to docetaxel. In addition, WZ811 inhibits aggressiveness markers and induces apoptosis in chronic lymphocytic leukemia cells[2].

In Vivo: WZ811 (40 mg/kg, p.o.) blocks the lymphocytic leukemia cells growth on mouse xenograft models, and inhibits CXCR4/PI3K/AKT signaling pathway in mouse xenograft model of lymphocytic leukemia[2].